



FULL CHARGE POWER: 35kVA
MEDIUM POWER ABSORPTION: 12kW
C. M. S. GAUGING VALUE: *

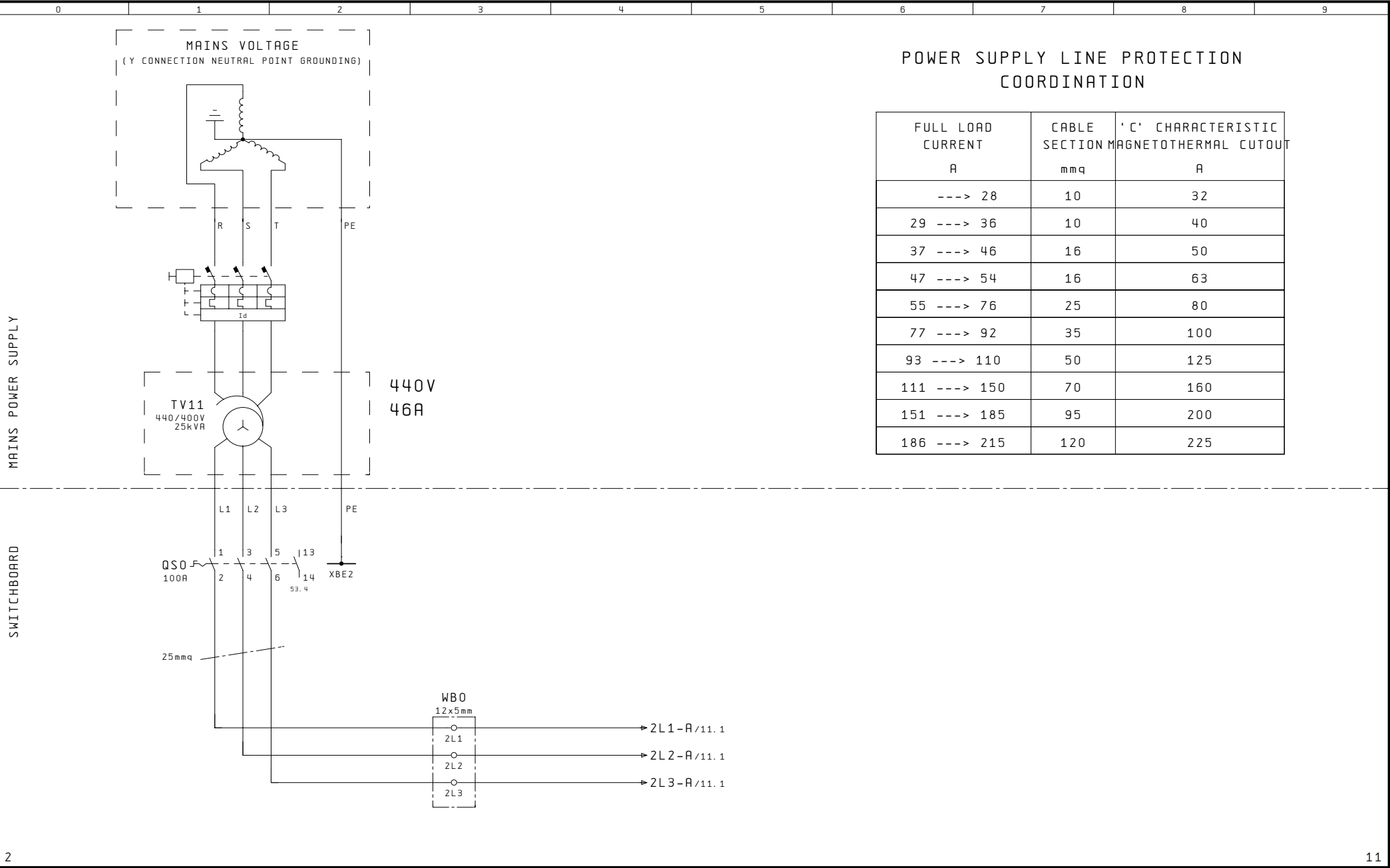
 CNC Machining Centres	C. M. S. S.p.A Costruzioni Macchine Speciali I-24019 ZOGNO (Bergamo)
	
● TENSIONE NOMINALE 400V Neutro a terra ● Voltage ratings ● Tension nominale ● Nennspannung ● Grounded neutral ● Neutre au sol ● Nulleiter	
● N° FASI 3	● FREQUENZA 50/60Hz
● Phases ● Nombre de Phases ● Zahl der Phasen ● Frequency ● Fréquence ● Frequenz	
● CORRENTE A PIENO CARICO 51A ● Full charge current ● Courant à plein charge ● Strom bei vollast	
● POTERE D' INTERRUZIONE DEL DISPOSITIVO DI PROTEZIONE ● Breaking capacity ● Pouvoir de coupure ● Abschaltleistung	
● SCHEMA CMS3020SEL	● N° SERIE 3020
● Diagram ● Schéma ● Schaltplan ● Serial number ● Numéro de série ● Seriennummer	

TRANSMISSION CODE Es.: 8L1/21.1
WIRE NUMBER
PAGE NUMBER
COLUMN NUMBER

MACHINE TYPE GIOTTO MONOTAVOLA

N° Rev.	DESCRIPTION OF REVISION	DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
0	NEW EXECUTION PROJECT	PACCHIANI	04.06.02	BROZZONI	21.02.01		
1	AS BUILT	PACCHIANI	08.11.02	BROZZONI	08.11.02		

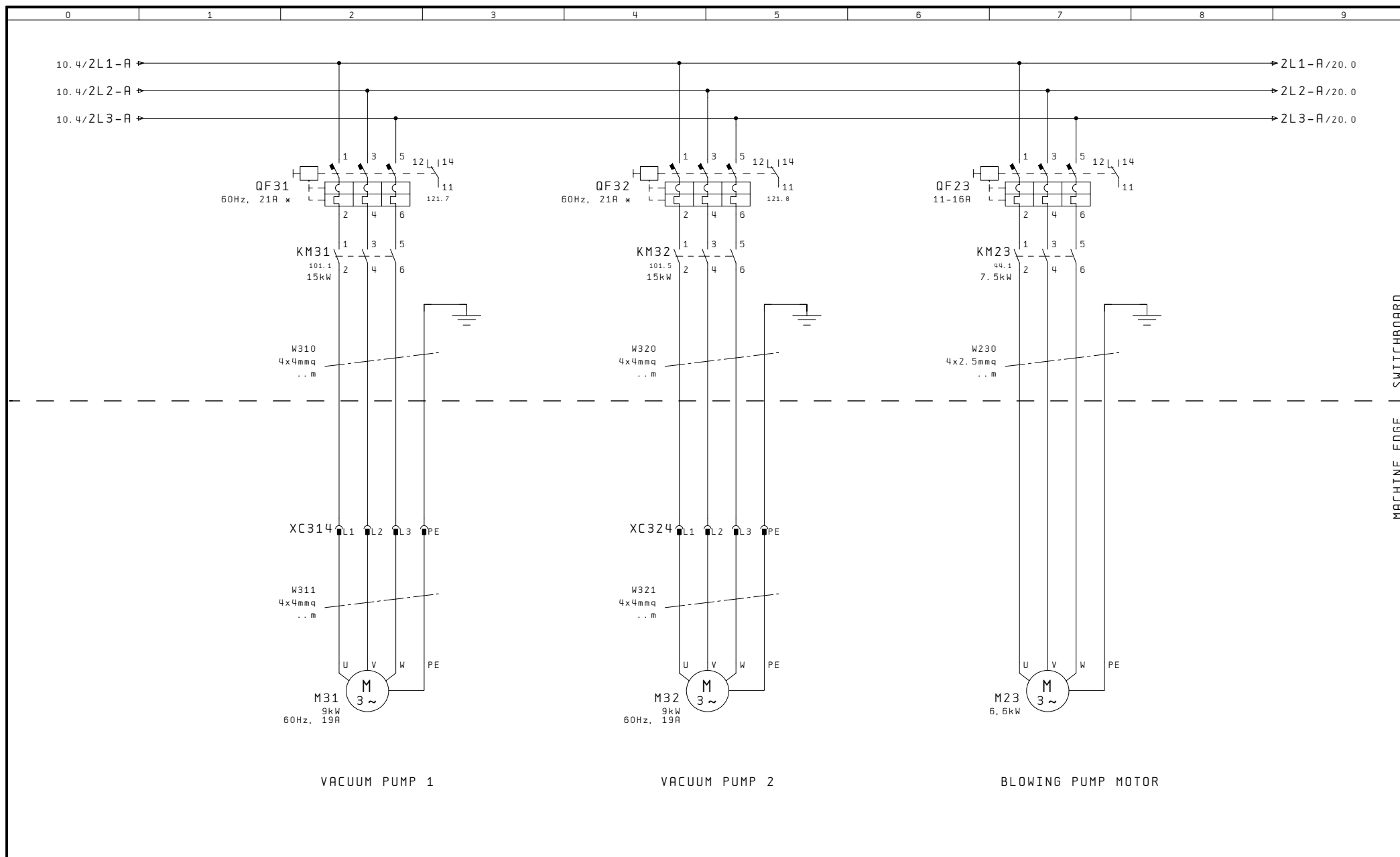
ASSE 'A' SOLO PREDISPOSTO



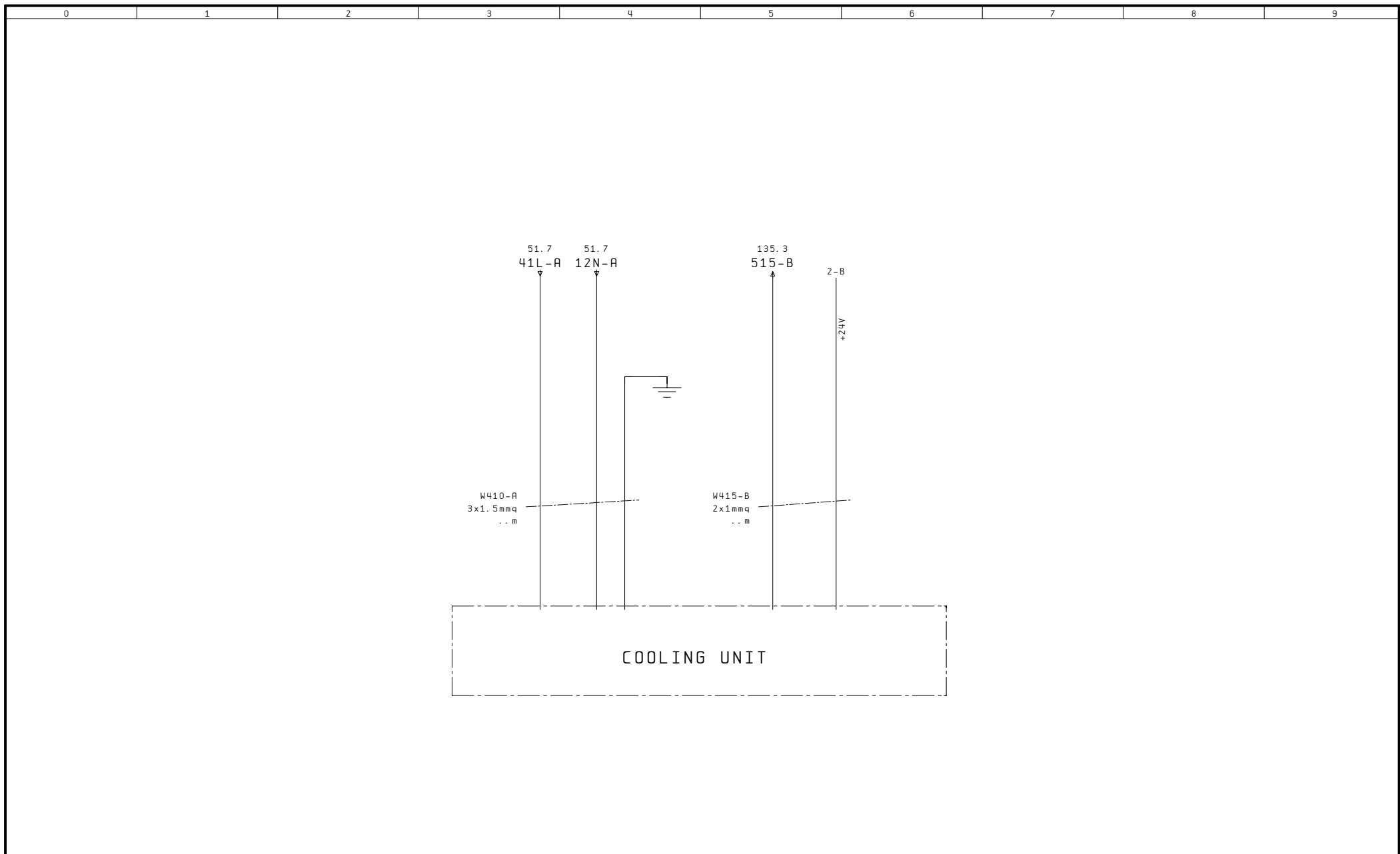
POWER SUPPLY LINE PROTECTION
COORDINATION

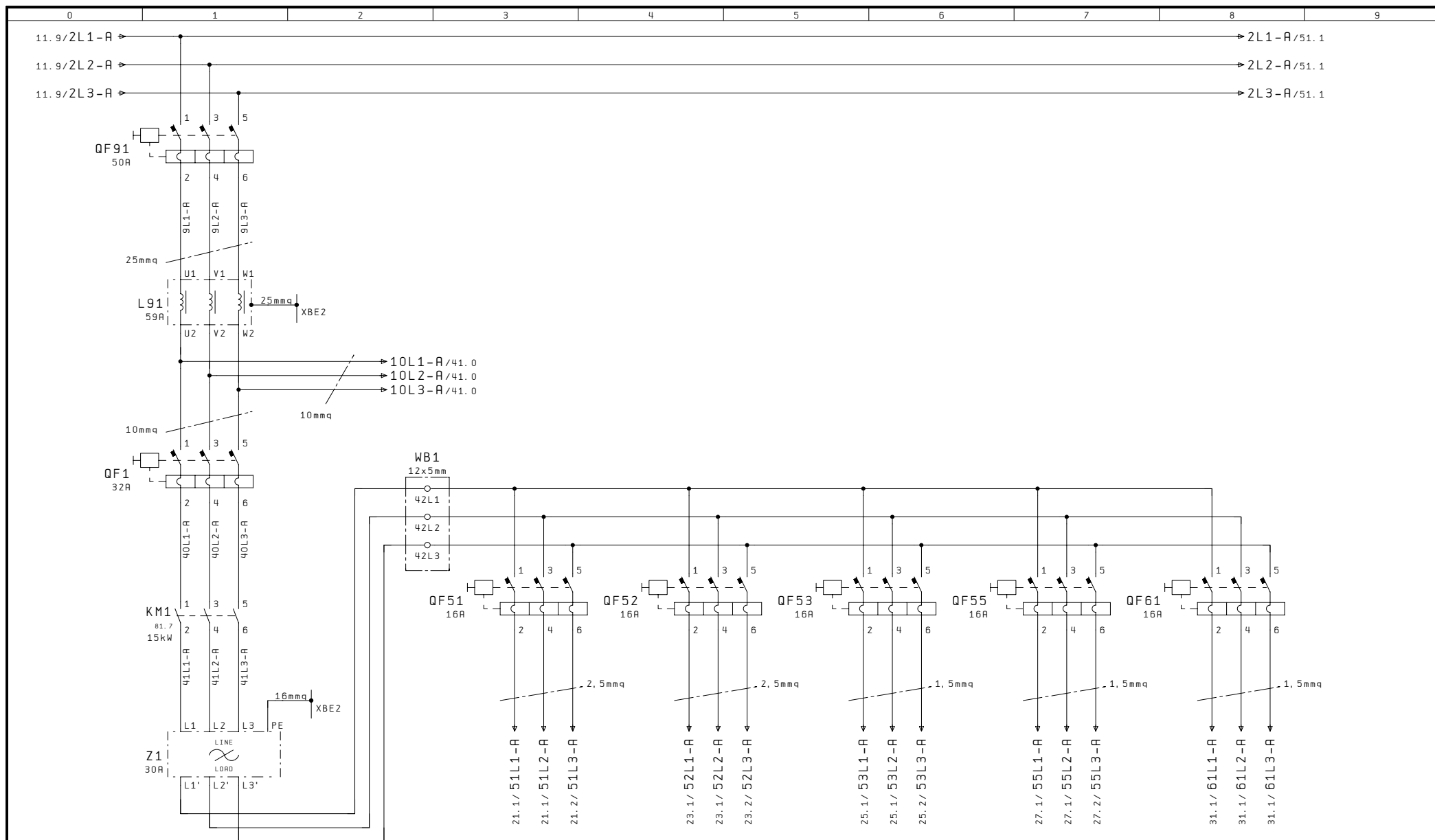
FULL LOAD CURRENT A	CABLE SECTION mmq	'C' CHARACTERISTIC MAGNETOTHERMAL CUTOFF A
---> 28	10	32
29 ---> 36	10	40
37 ---> 46	16	50
47 ---> 54	16	63
55 ---> 76	25	80
77 ---> 92	35	100
93 ---> 110	50	125
111 ---> 150	70	160
151 ---> 185	95	200
186 ---> 215	120	225

Changes	08.11.02	Notes	C. M. S. S. p. A. MASTER POWER SUPPLY	CMS3020SEL
Designer	SMN		ZOGNO (BG) ITALY	GIOTTO MONOTAVOLA
Plot	08.11.02			Pg. 10

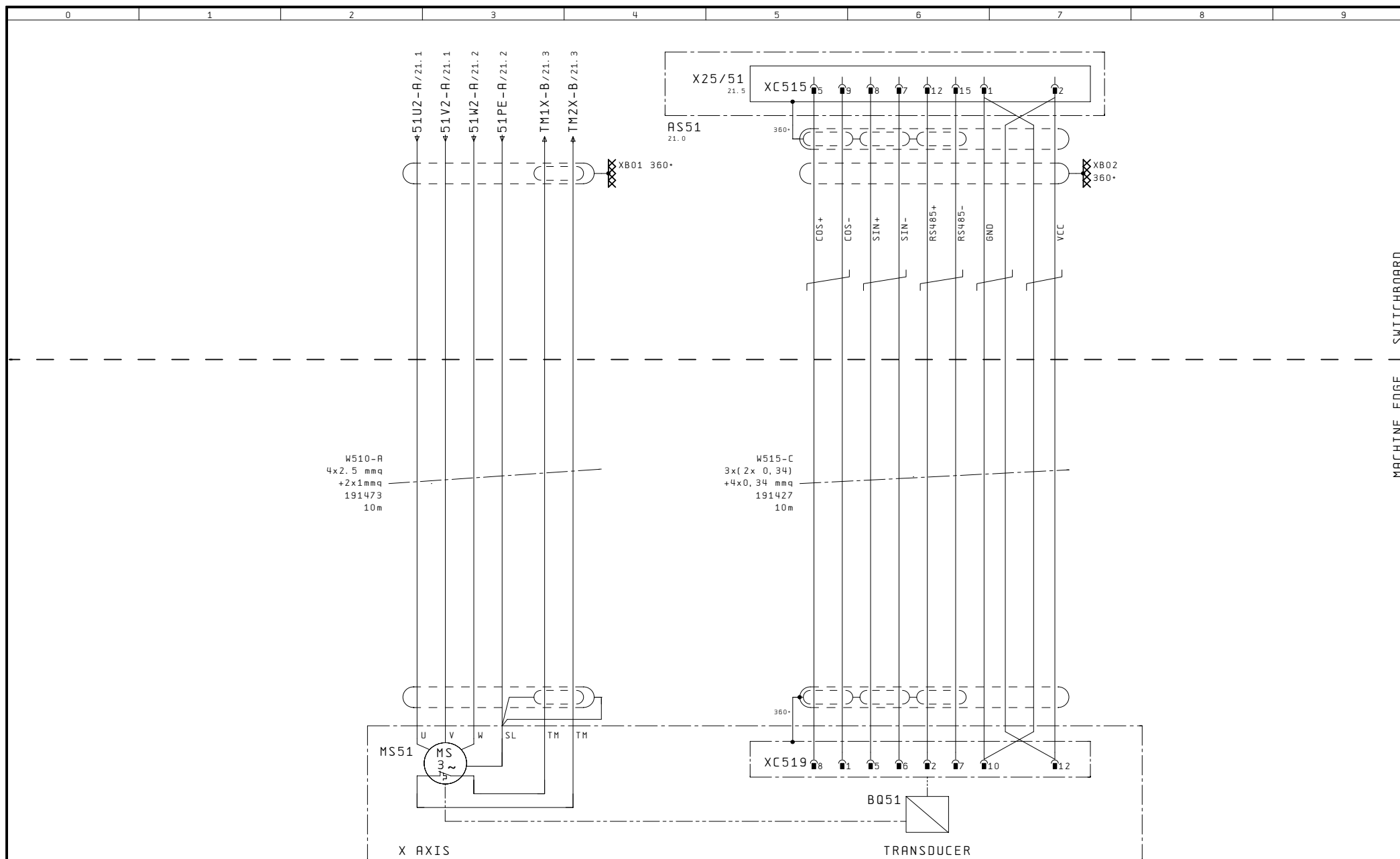


Changes	08.11.02	Notes	C. M. S. S. p. A.	VACUUM PUMPS	CMS3020SEL
Designer	SMN		ZOGNO (BG) ITALY		GIOTTO MONOTAVOLA
Plot	08.11.02				Pg.
					11





Changes	08.11.02	Notes	C. M. S.	S. p. A.	POWER SUPPLY OF AXIS AND ELECTROSPINDLE CONVERTERS	CMS3020SEL
Designer	SMN		ZOGNO (BG)	ITALY		GIOTTO MONOTAVOLA
Plot	08.11.02					Pg. 20



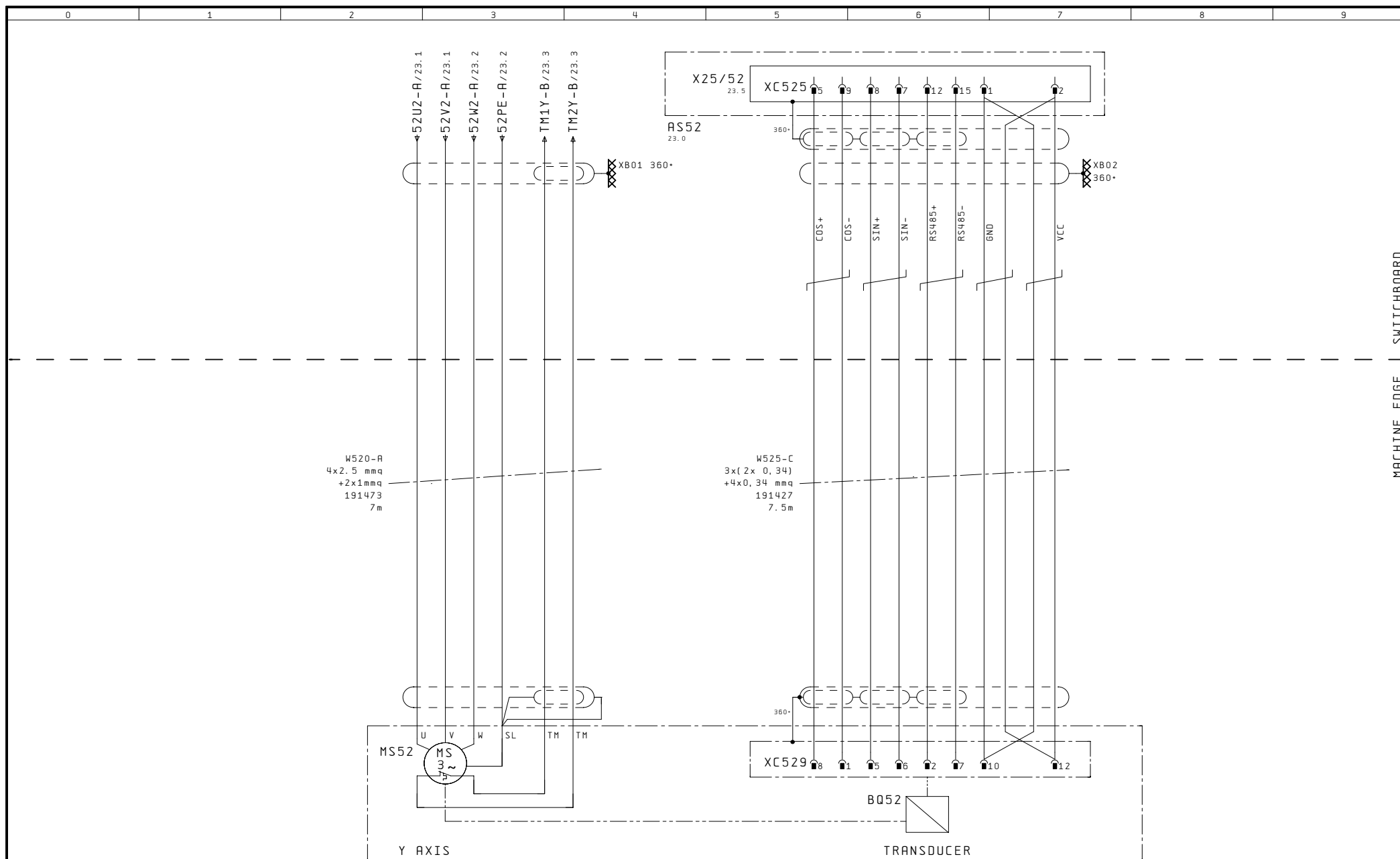
MACHINE EDGE SWITCHBOARD

21

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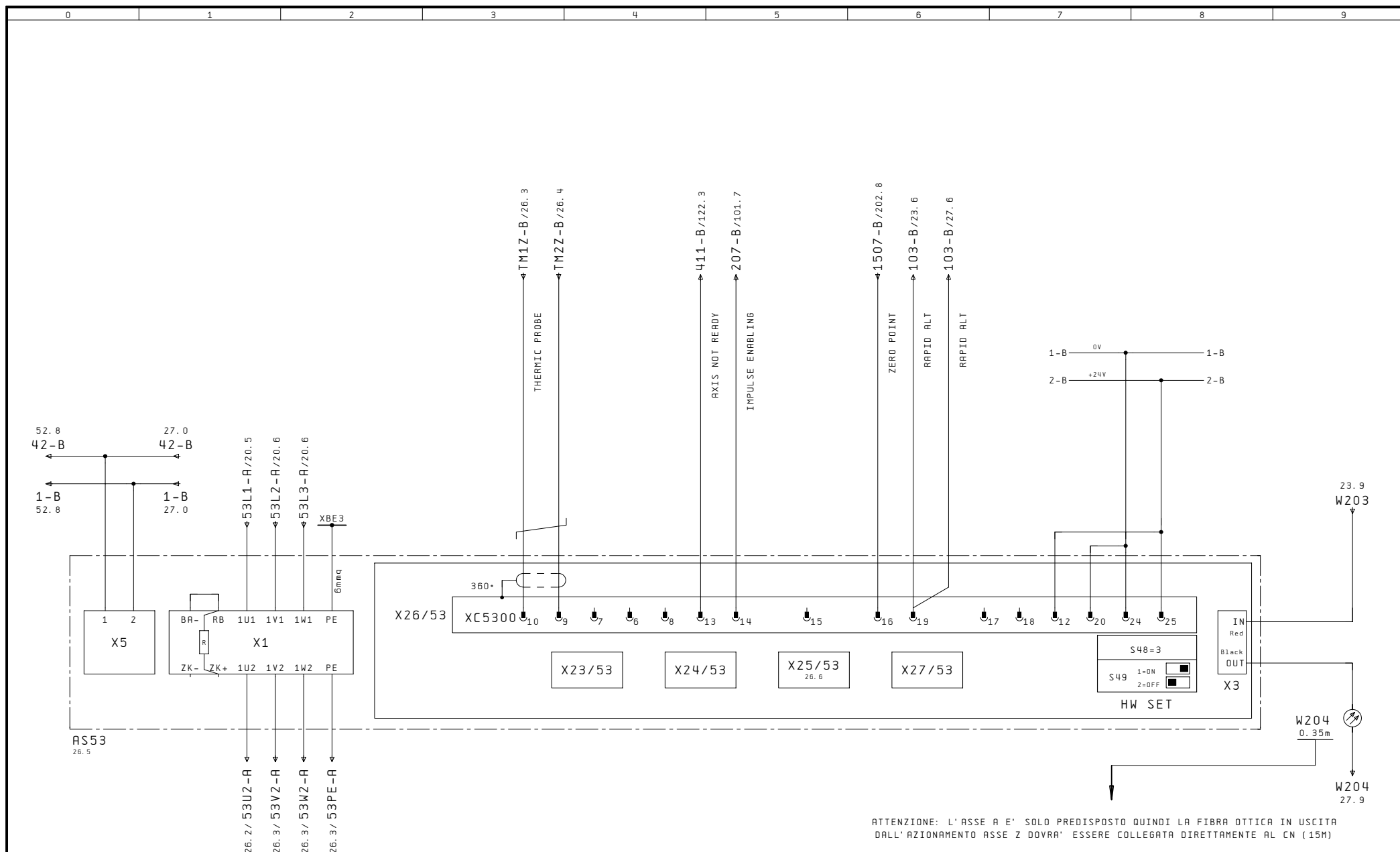
Changes	08.11.02	Notes	C. M. S.	S. p. A.	X AXIS SERVO-MOTOR	CMS3020SEL	Pg.
Designer	SMN		ZOGNO (BG)	ITALY		GIOTTO MONOTAVOLA	
Plot	08.11.02						

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MACHINE EDGE SWITCHBOARD

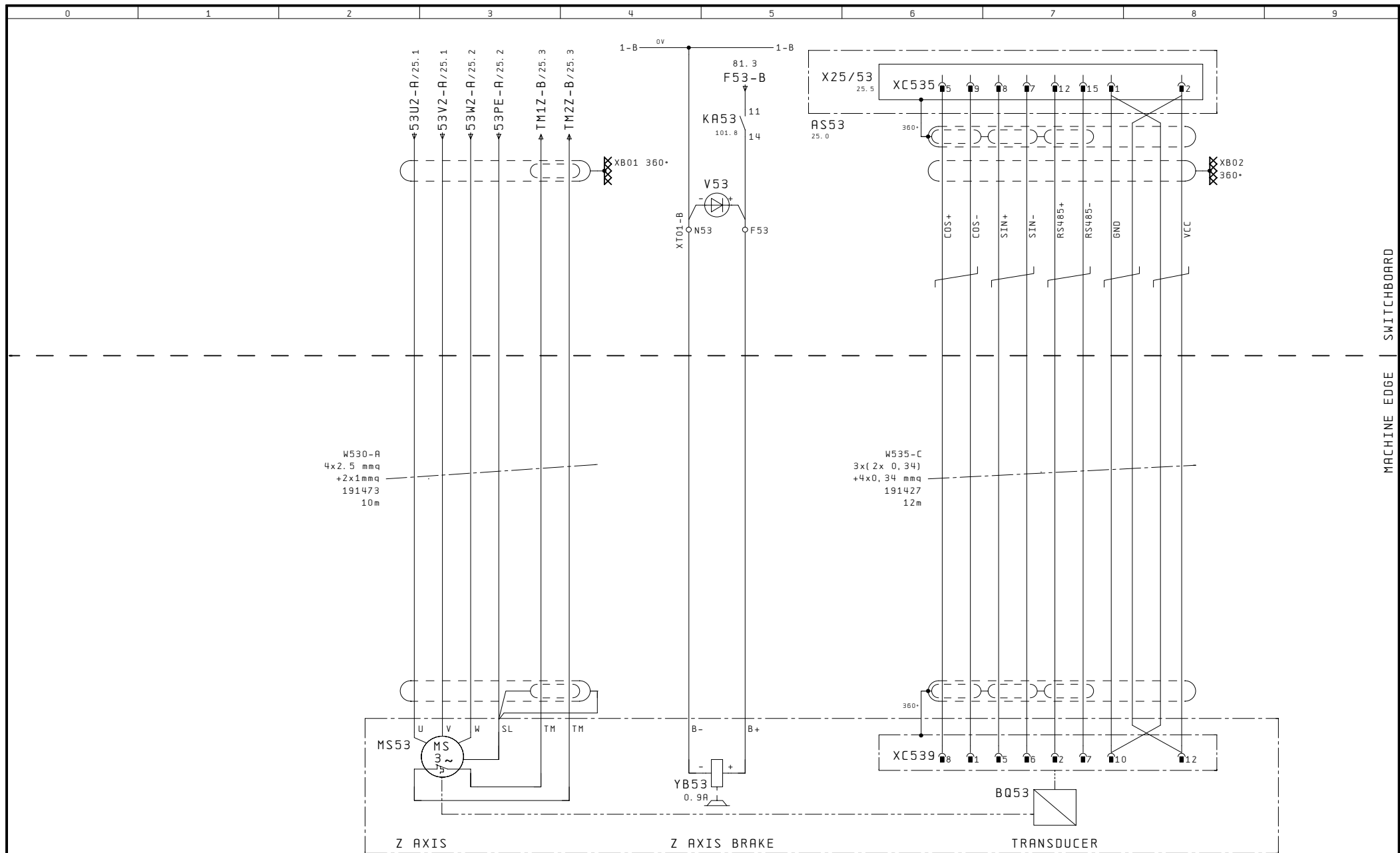
Changes	08.11.02	Notes	C. M. S.	S. p. A.	Y AXIS SERVO-MOTOR	CMS3020SEL
Designer	SMN		ZOGNO (BG)	ITALY		GIOTTO MONOTAVOLA
Plot	08.11.02					Pg.
						24



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Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	Z AXIS SERVO-MOTOR CONVERTER	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 25	

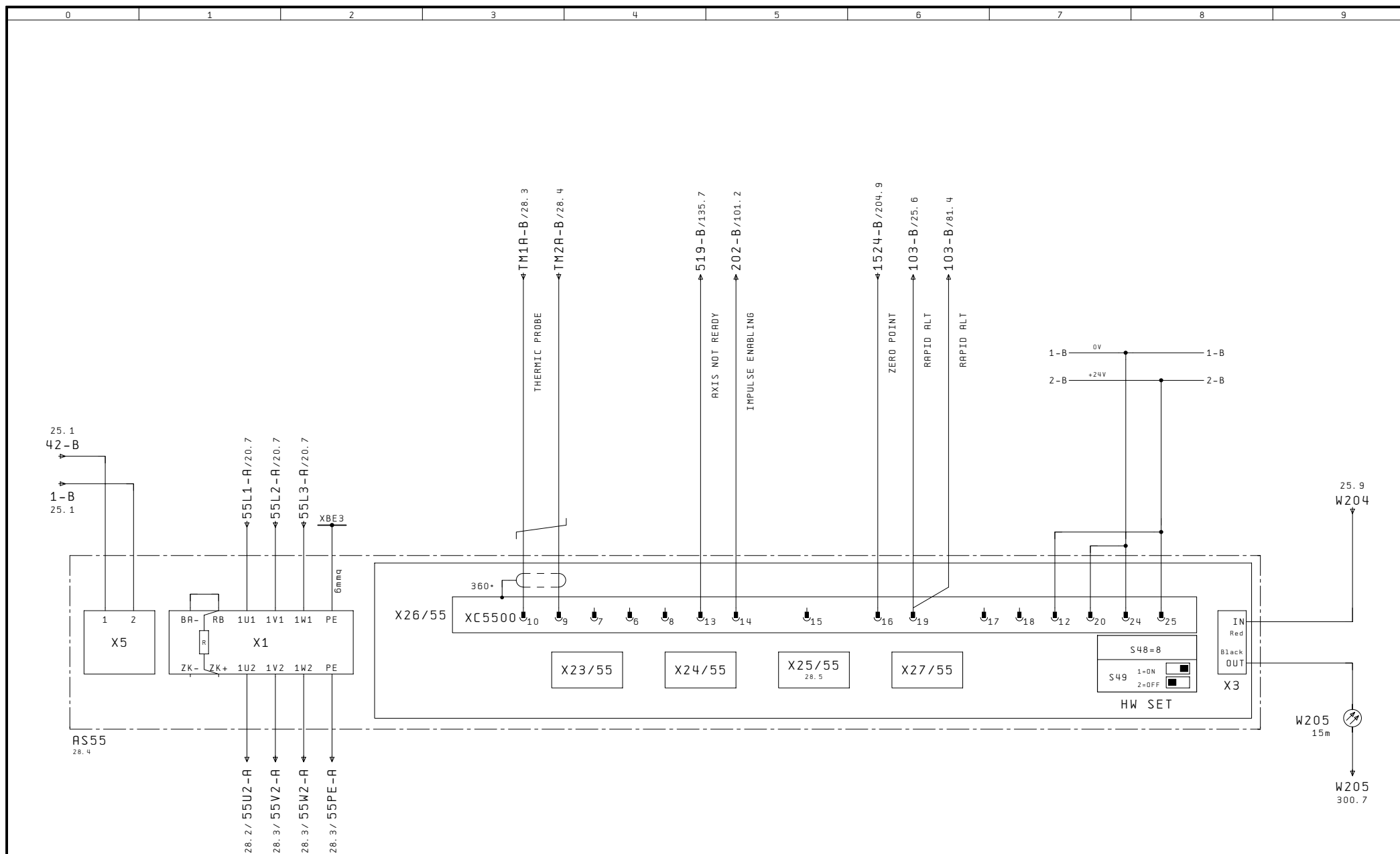


25

27

Changes	08.11.02	Notes	C. M. S.	S. p. A.	Z AXIS SERVOMOTOR	CMS3020SEL	Pg.
Designer	SMN		ZOGNO (BG)	ITALY		GIOTTO MONOTAVOLA	
Plot	08.11.02						

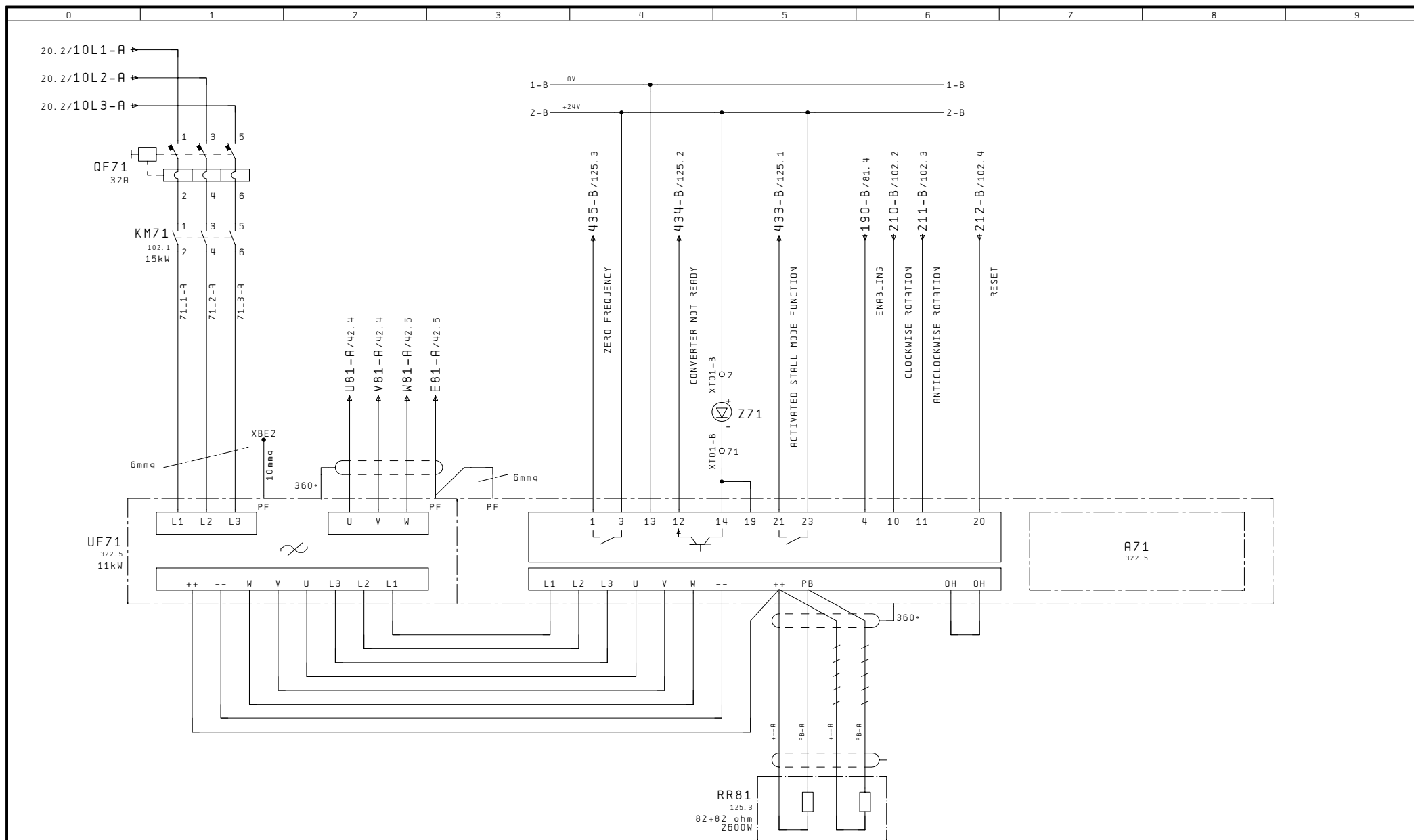
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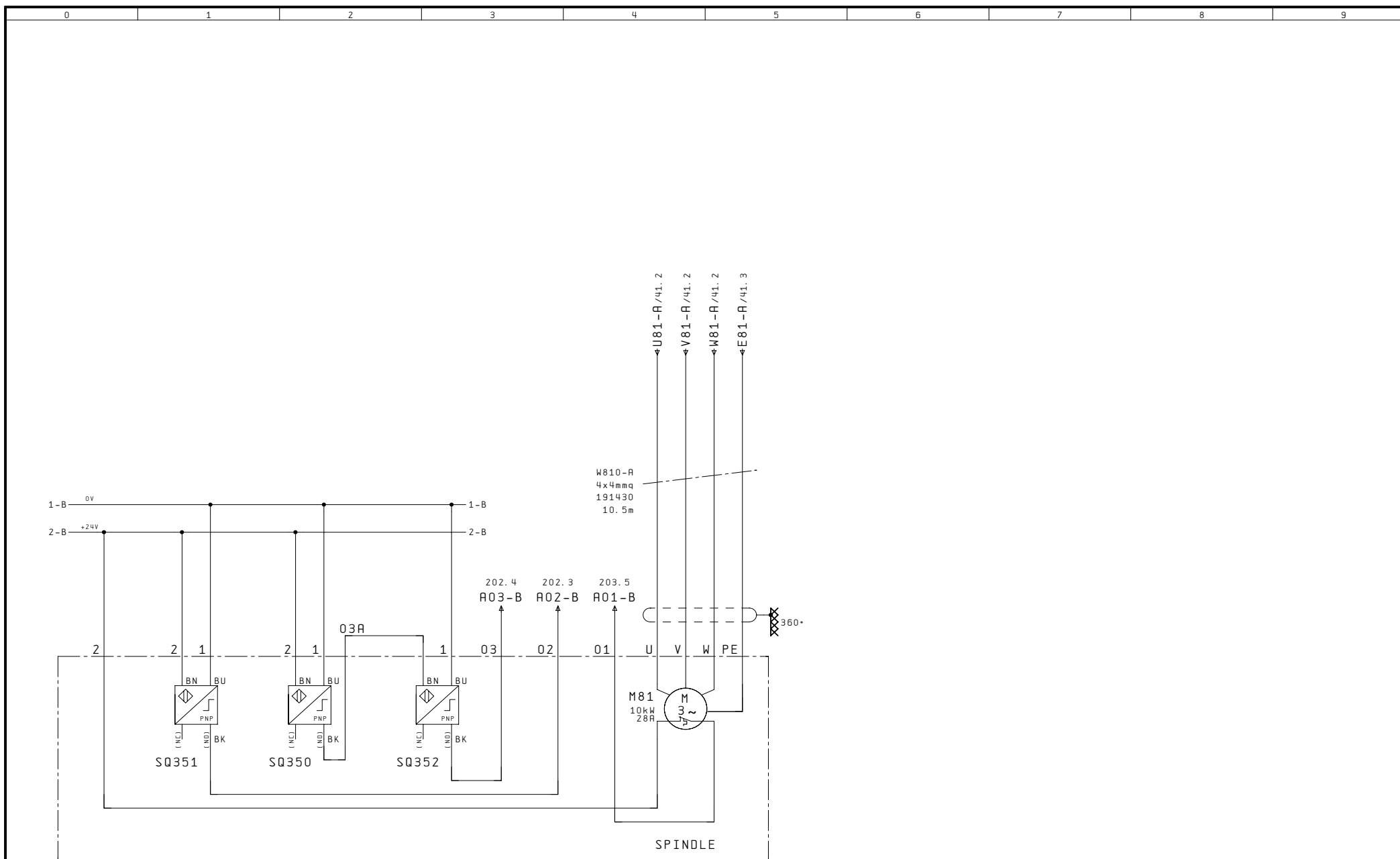
26

28

Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	A AXIS SERVOMOTOR CONVERTER	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 27	

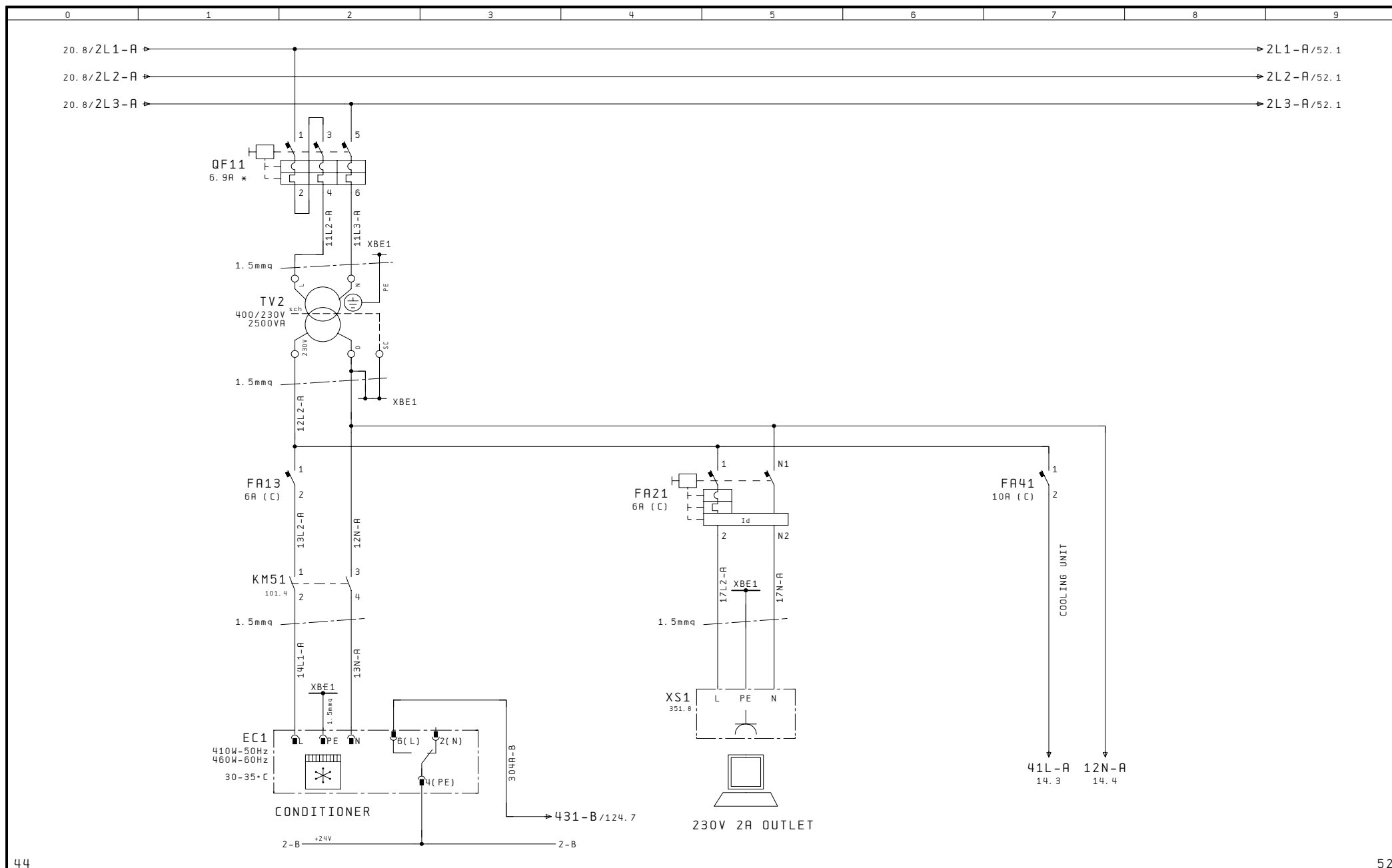


Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CONVERTER	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg.	41



41						44
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	ELECTROSPINDLE	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	Pg.
Plot	08.11.02					42

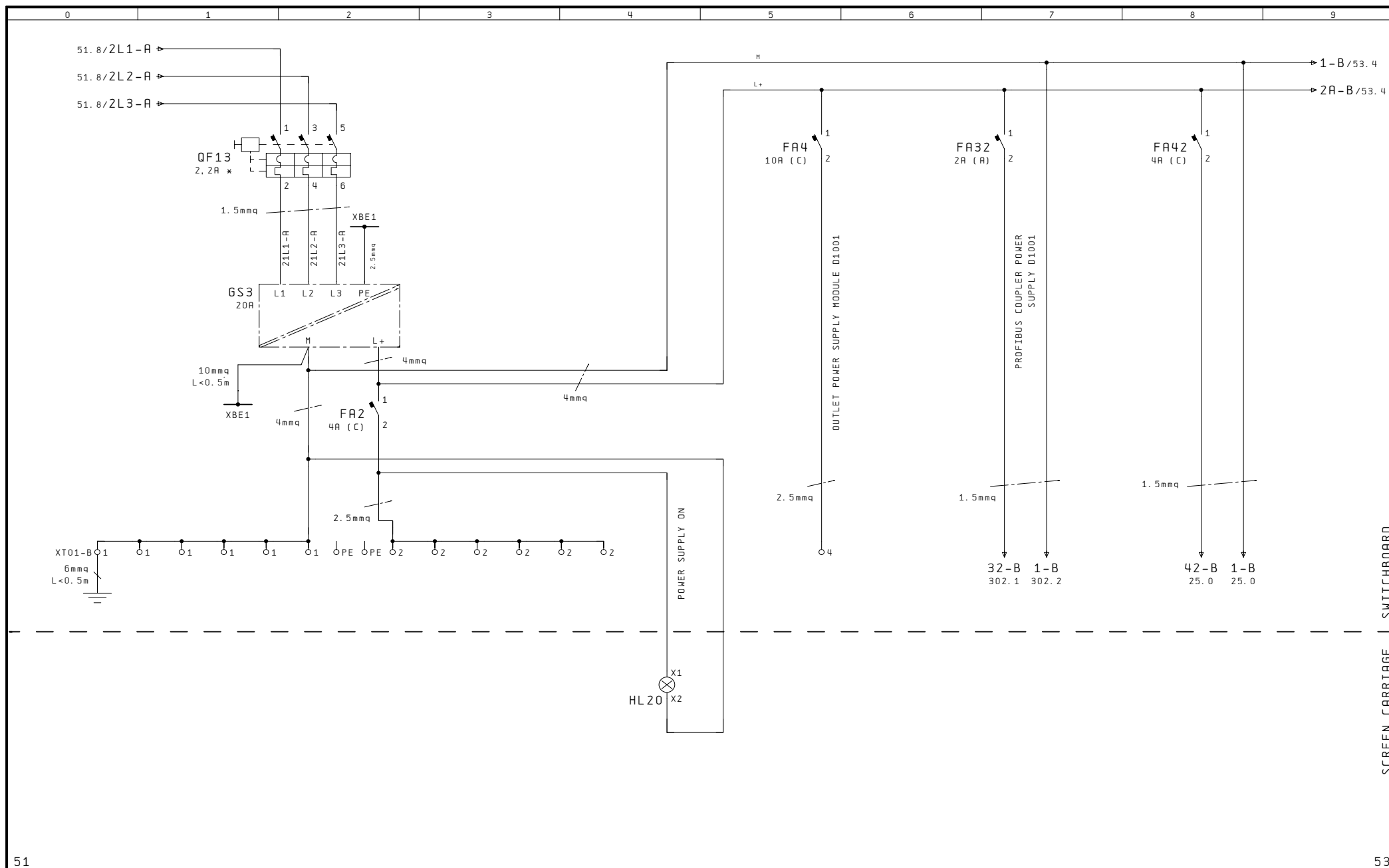




44

52

Changes	08.11.02	Notes	C. M. S.	S. p. A.	230V USE POWER SUPPLY	CMS3020SEL
Designer	SMN		ZOGNO (BG)	ITALY		GIOTTO MONOTAVOLA
Plot	08.11.02					Pg.
						51

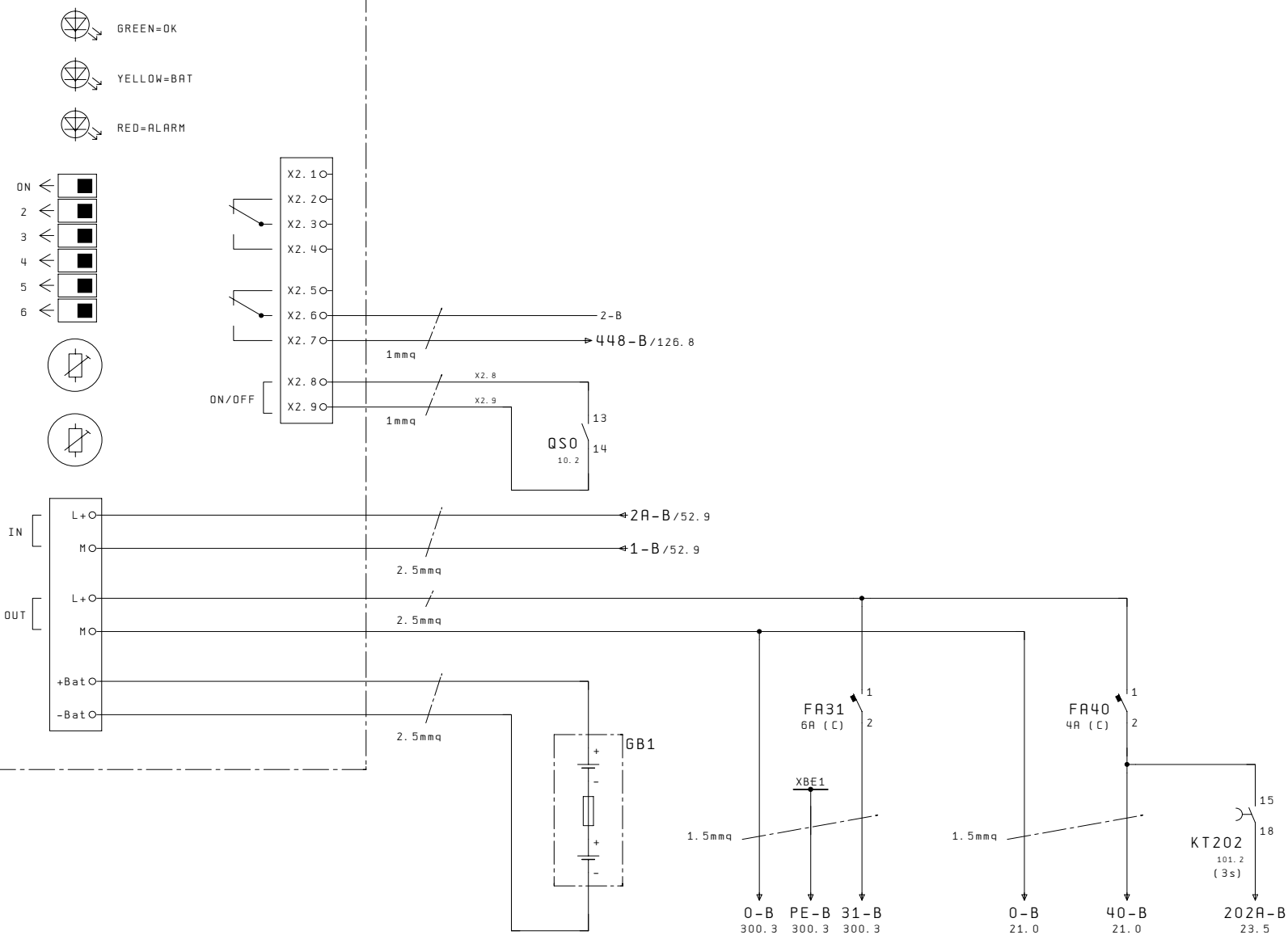


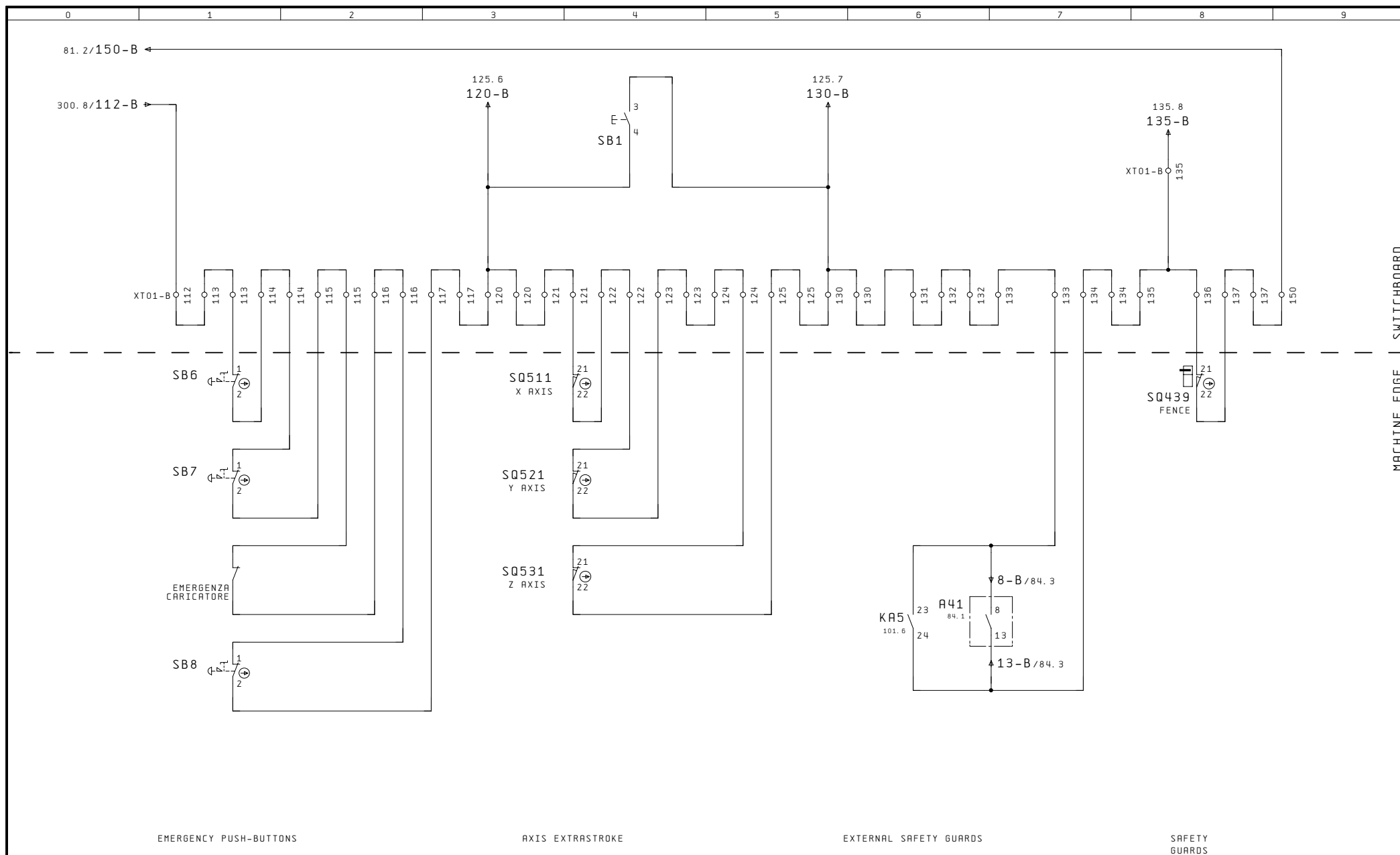
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53

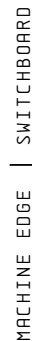
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Designer	SMN				GIOTTO MONOTAVOLA		Pg.
Plot	08.11.02						

SCREEN CARRIAGE SWITCHBOARD

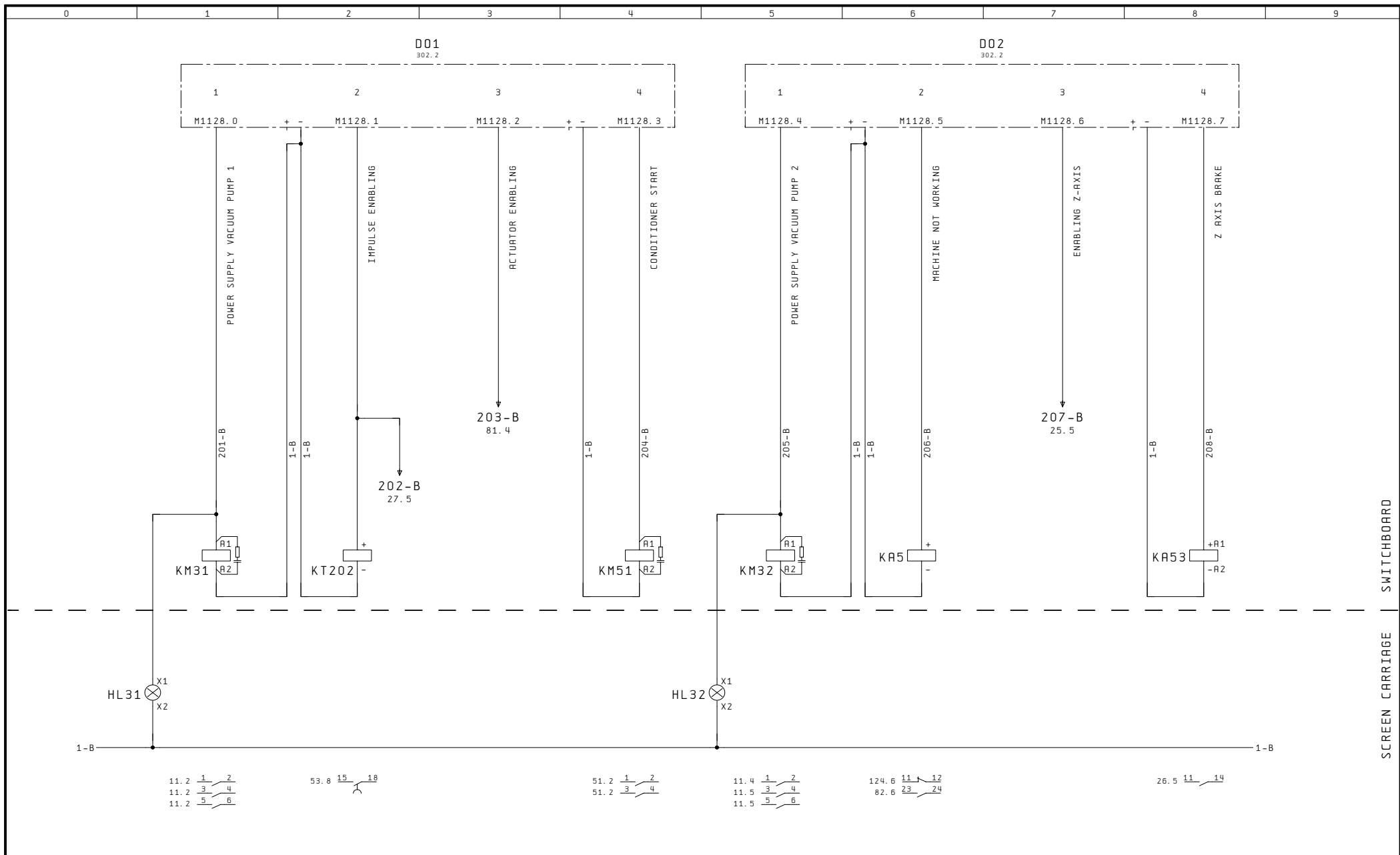


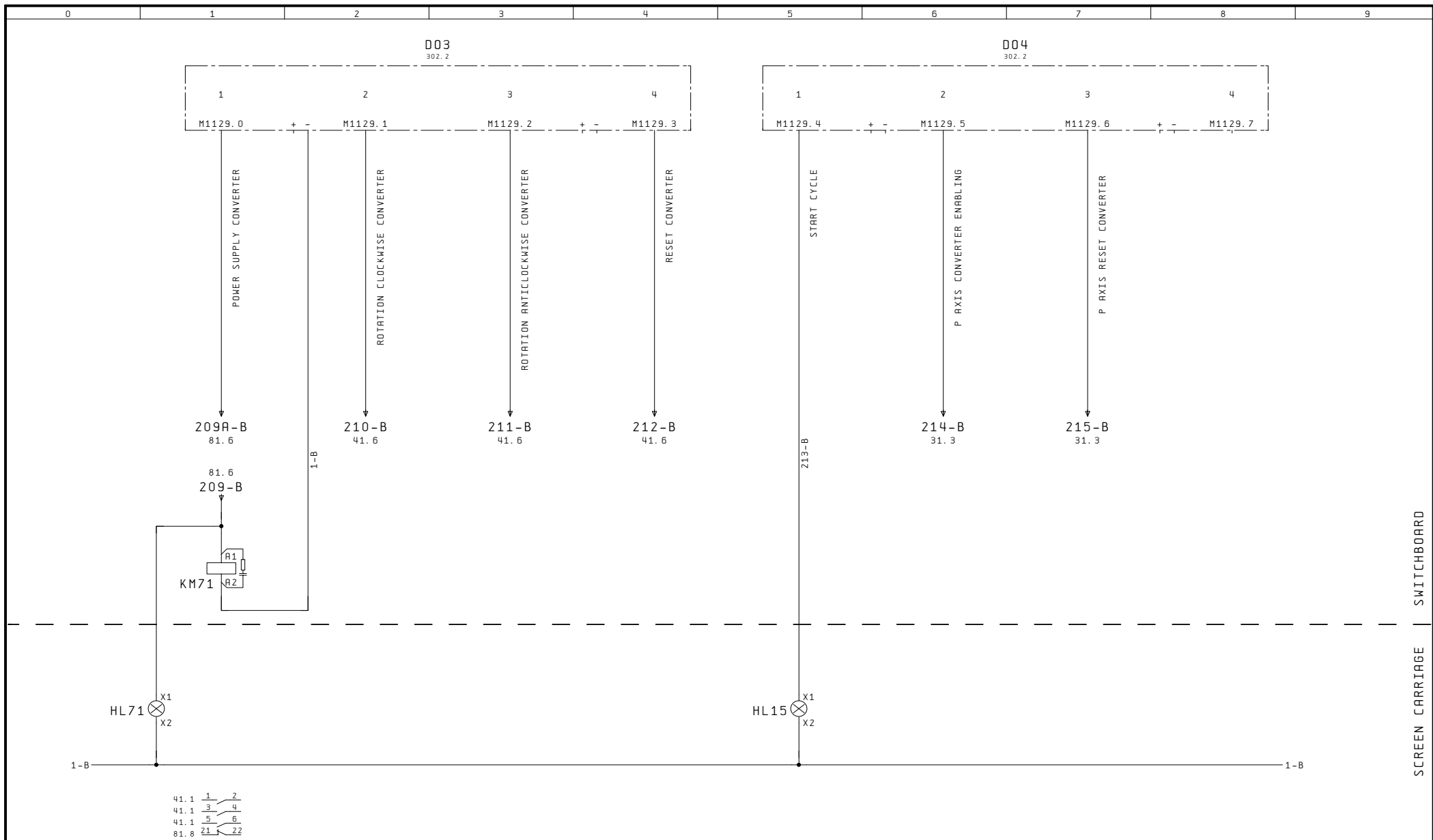


Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	EMERGENCY CHAIN	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 82	

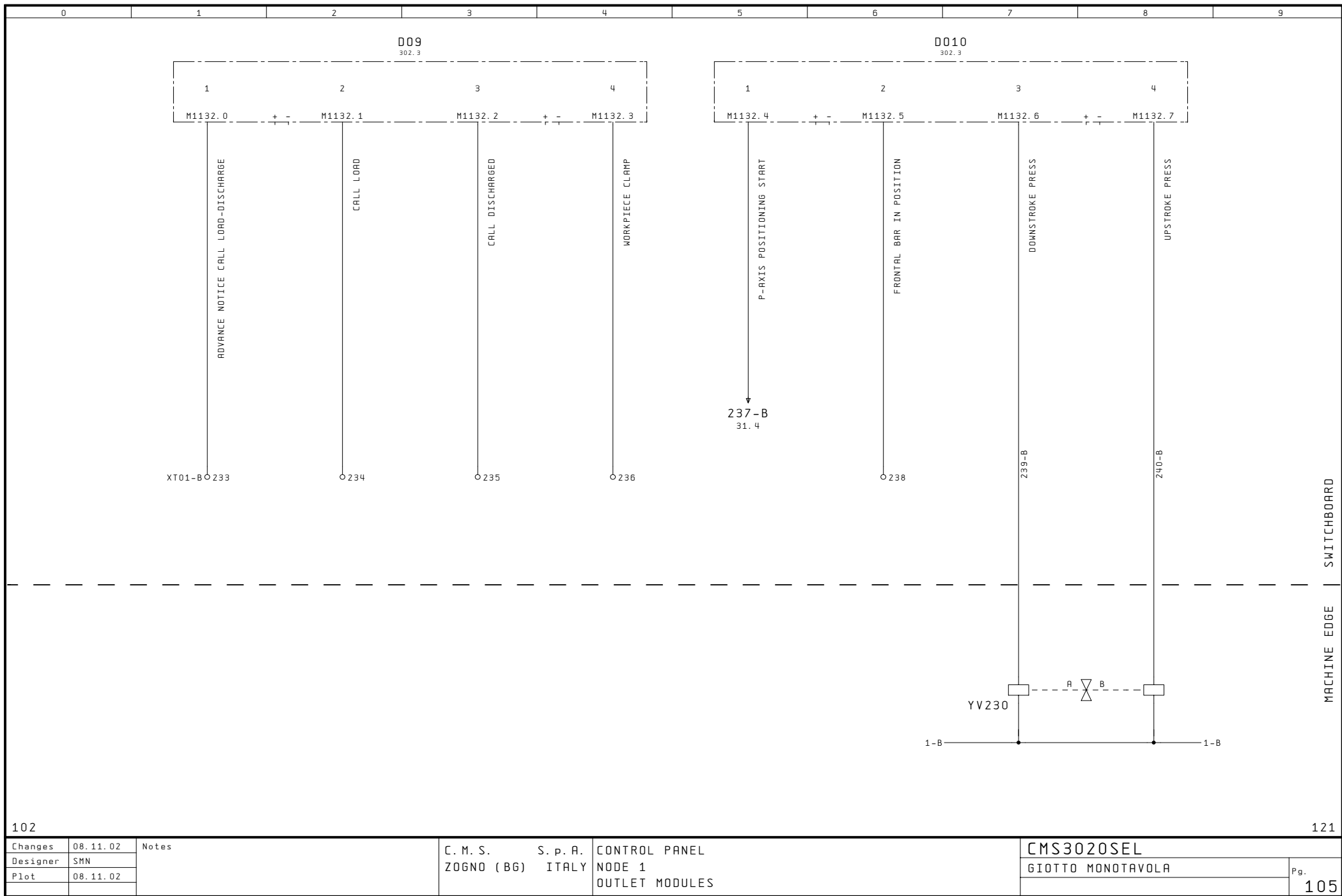


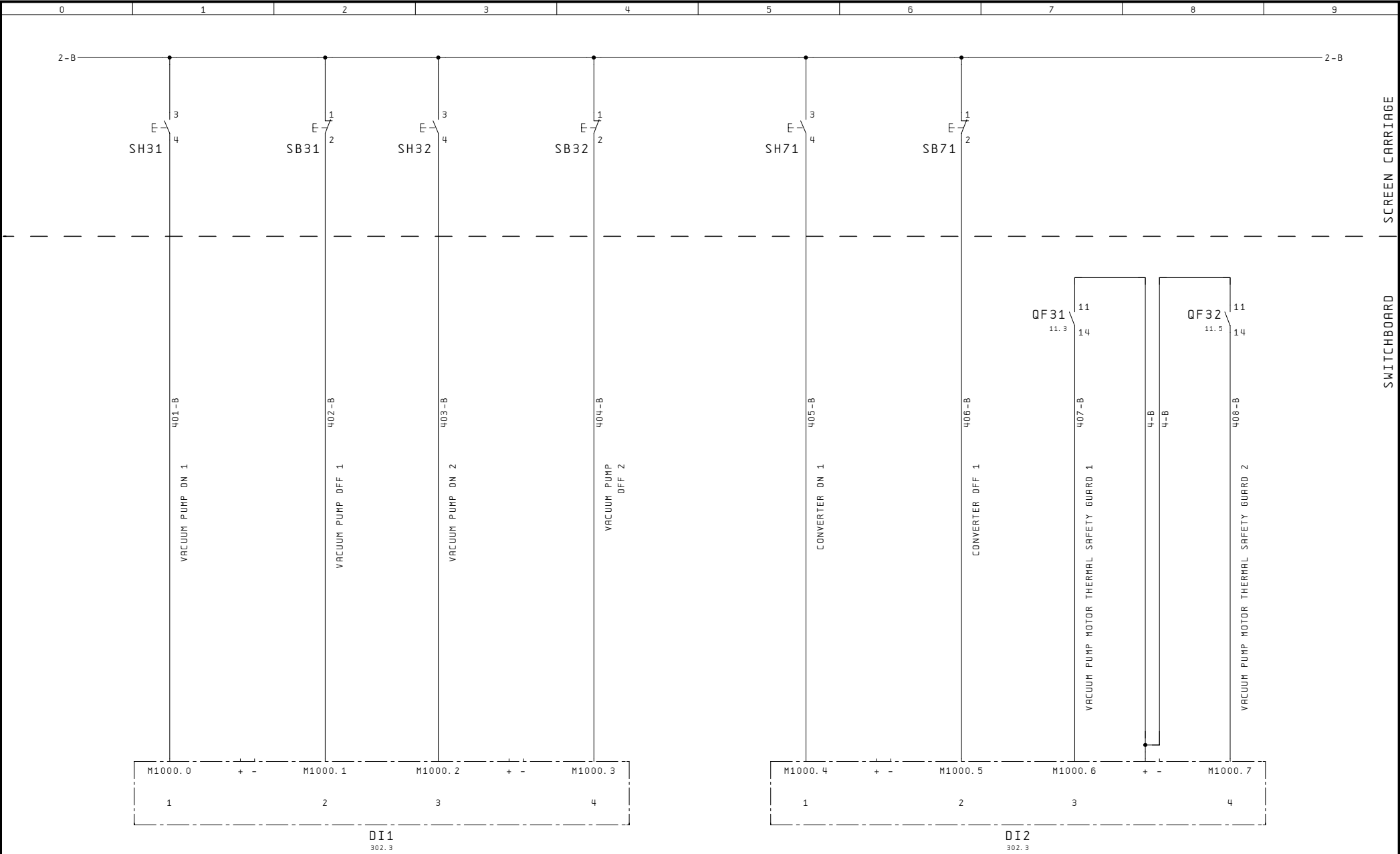
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	SAFETY BARRIER	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	Pg. 84
Plot	08.11.02					



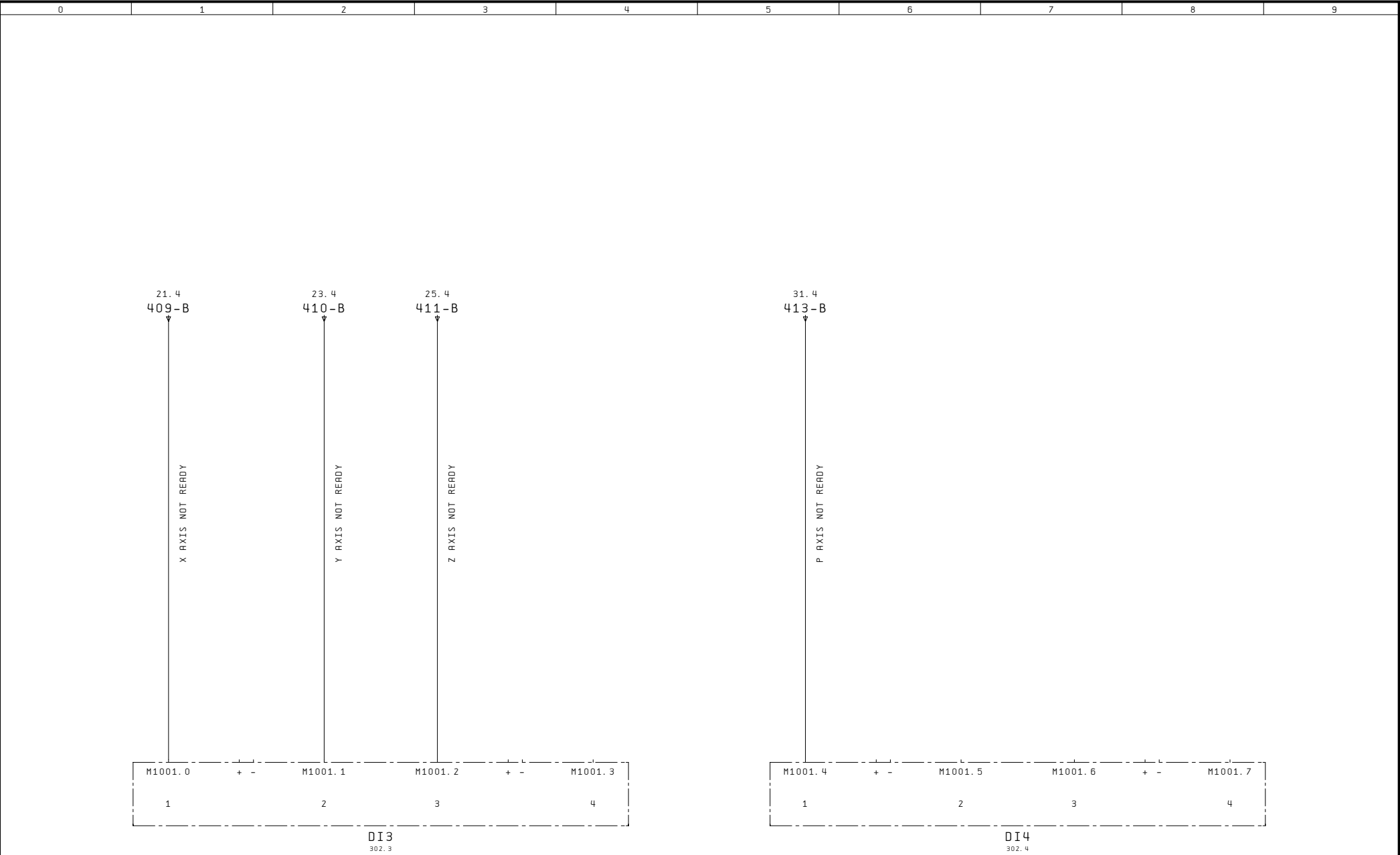


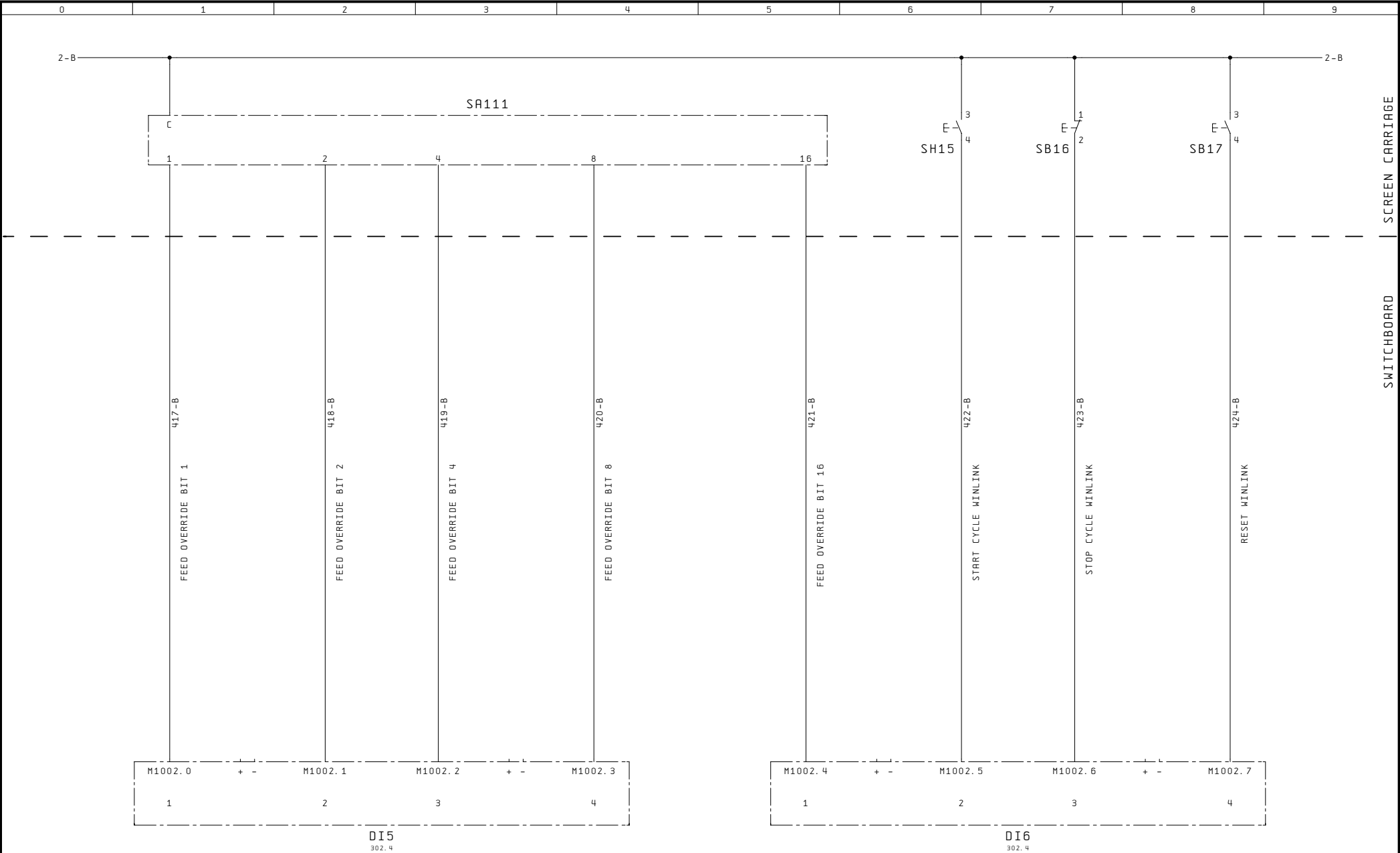
101					105
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	OUTLET MODULES	CMS3020SEL
Designer	SMN				GIOTTO MONOTAVOLA
Plot	08.11.02				Pg. 102



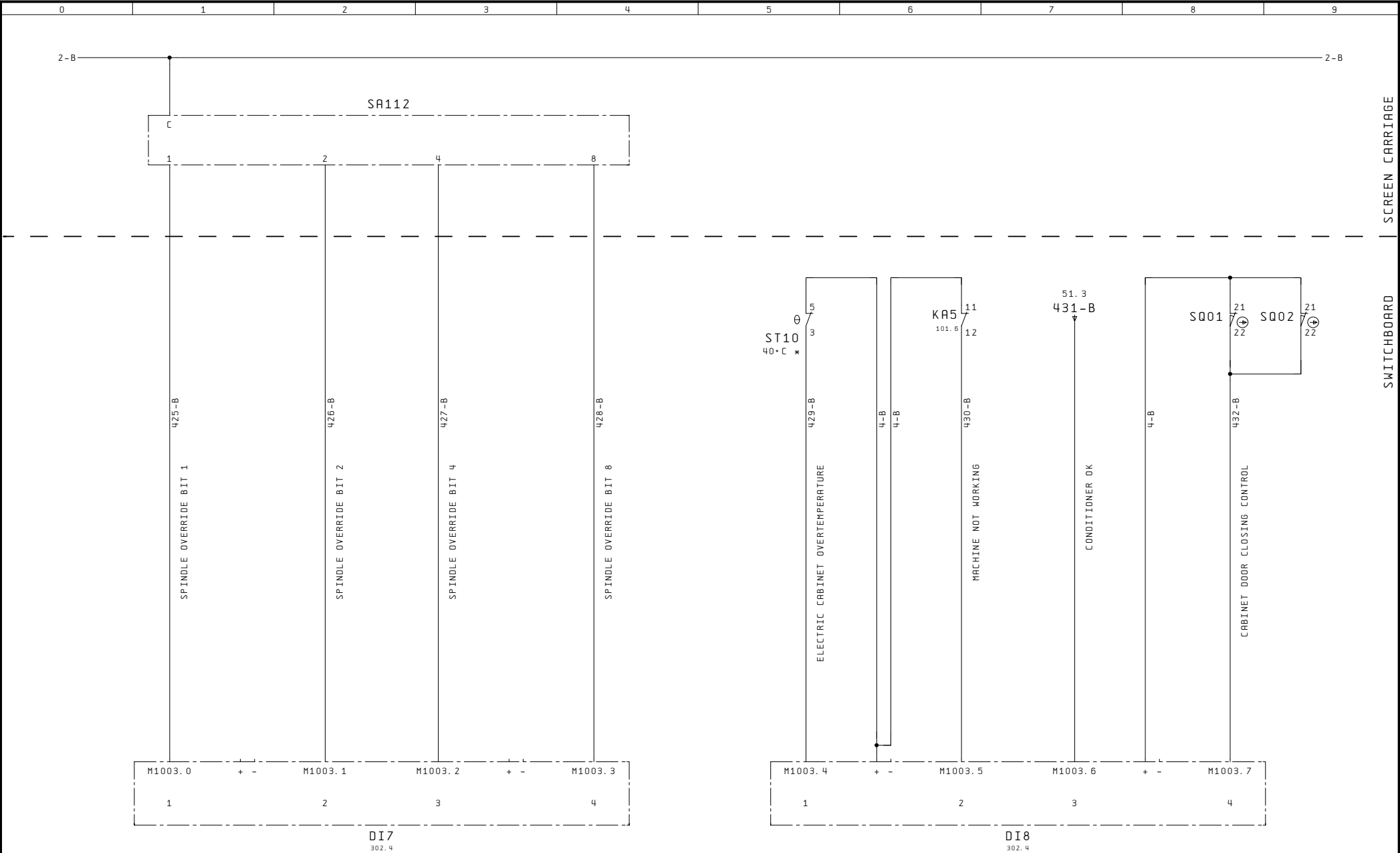


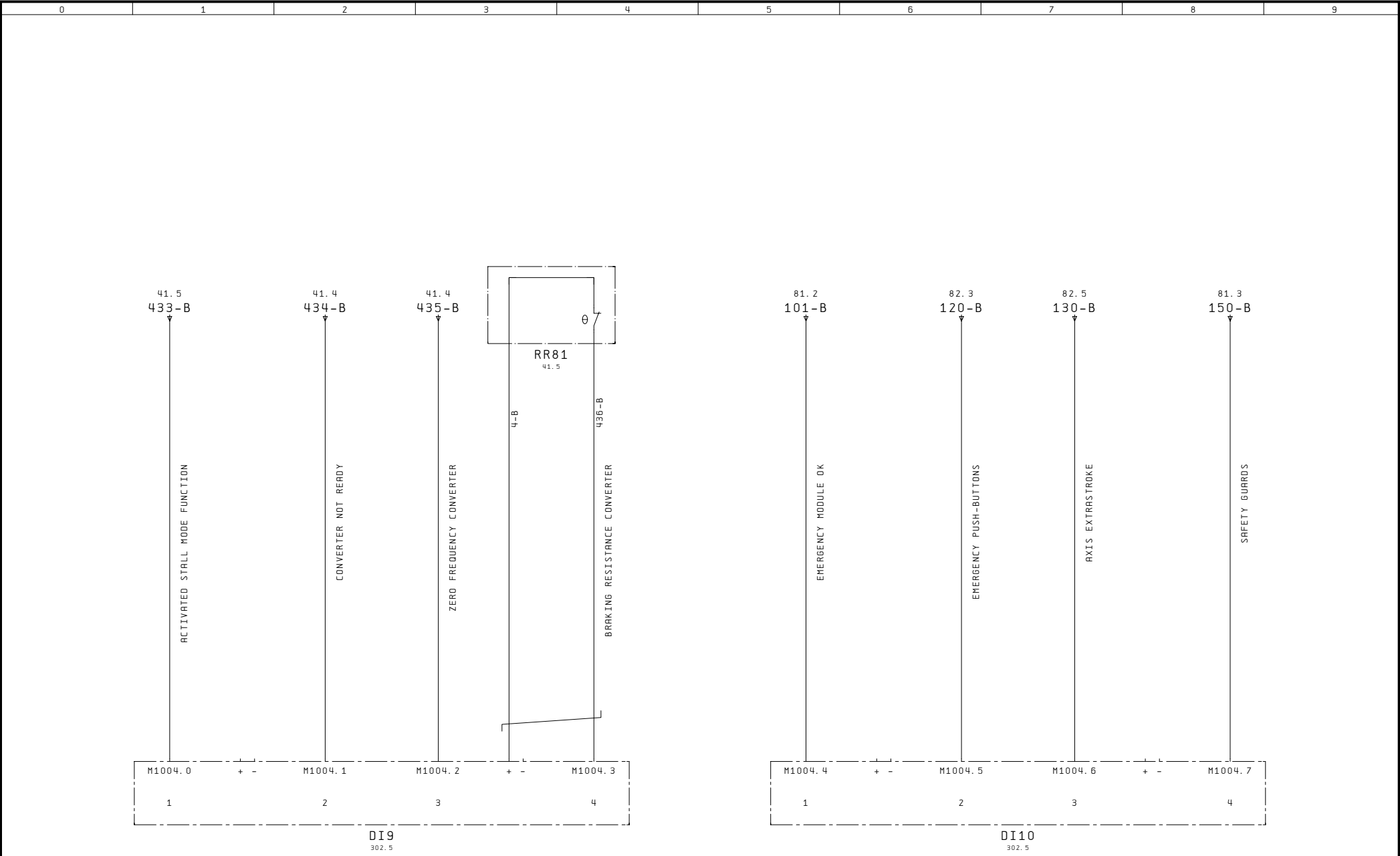
105							122	
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	INLET MODULES	CMS3020SEL			
Designer	SMN				GIOTTO MONOTAVOLA		Pg. 121	
Plot	08.11.02							

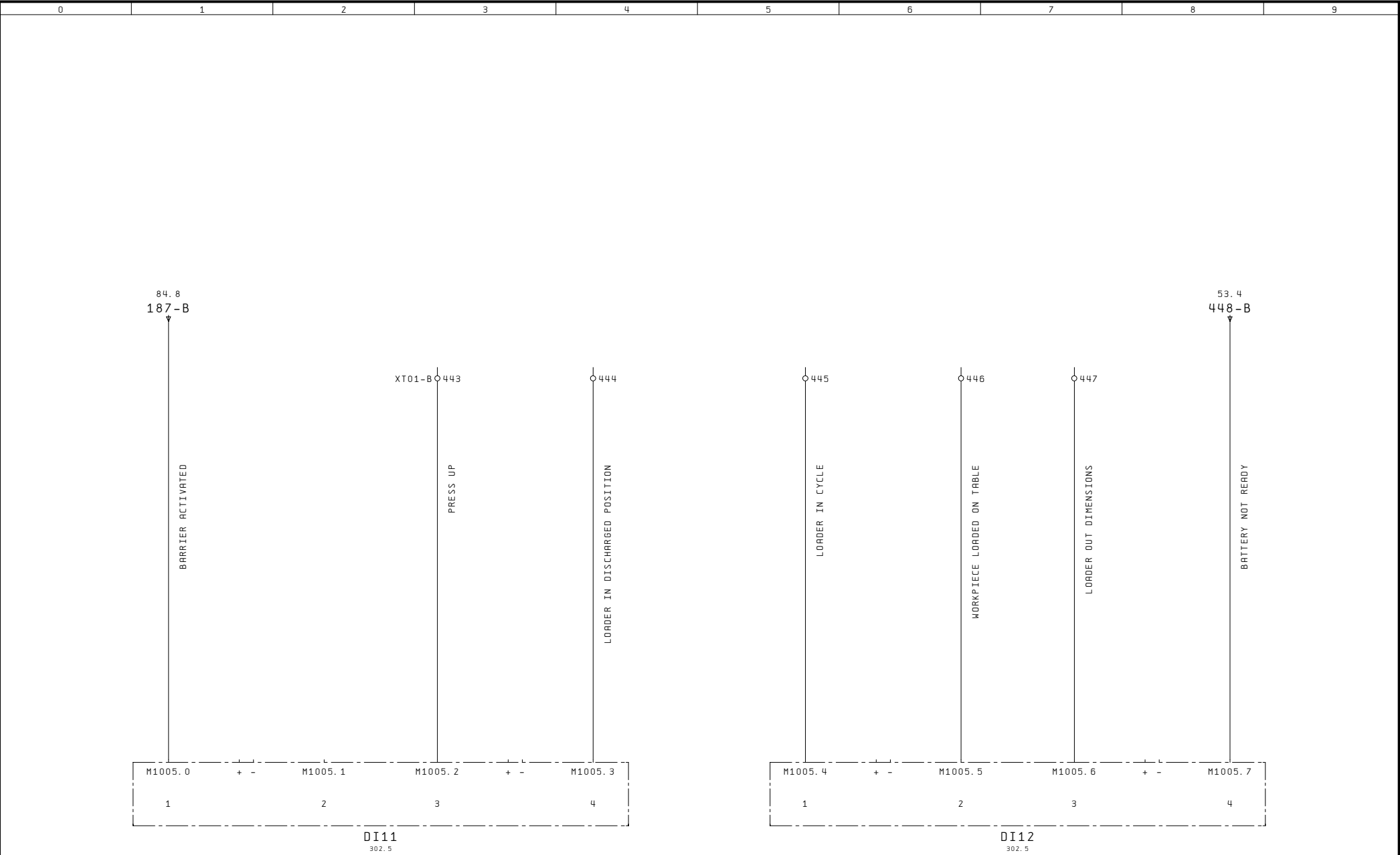


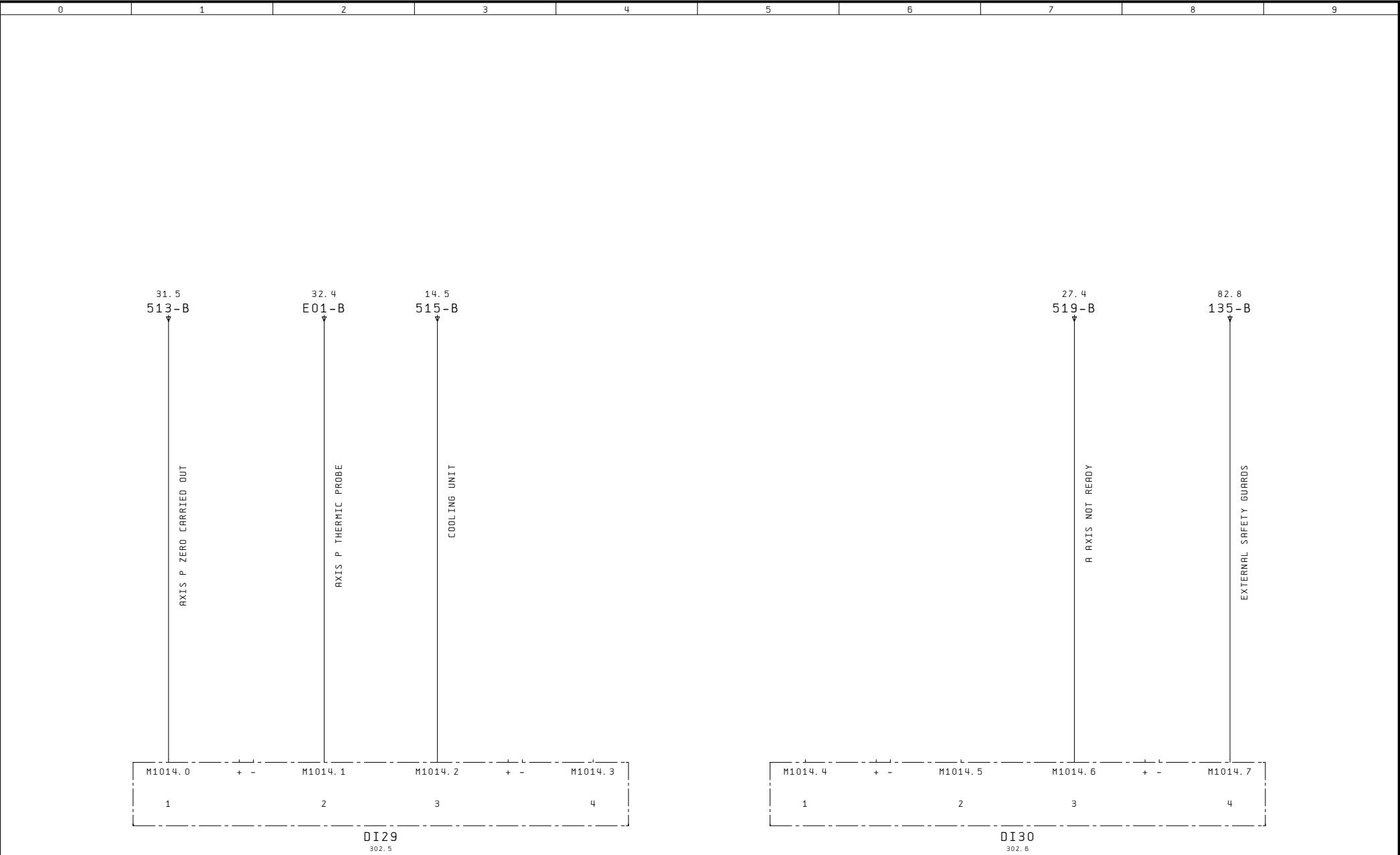


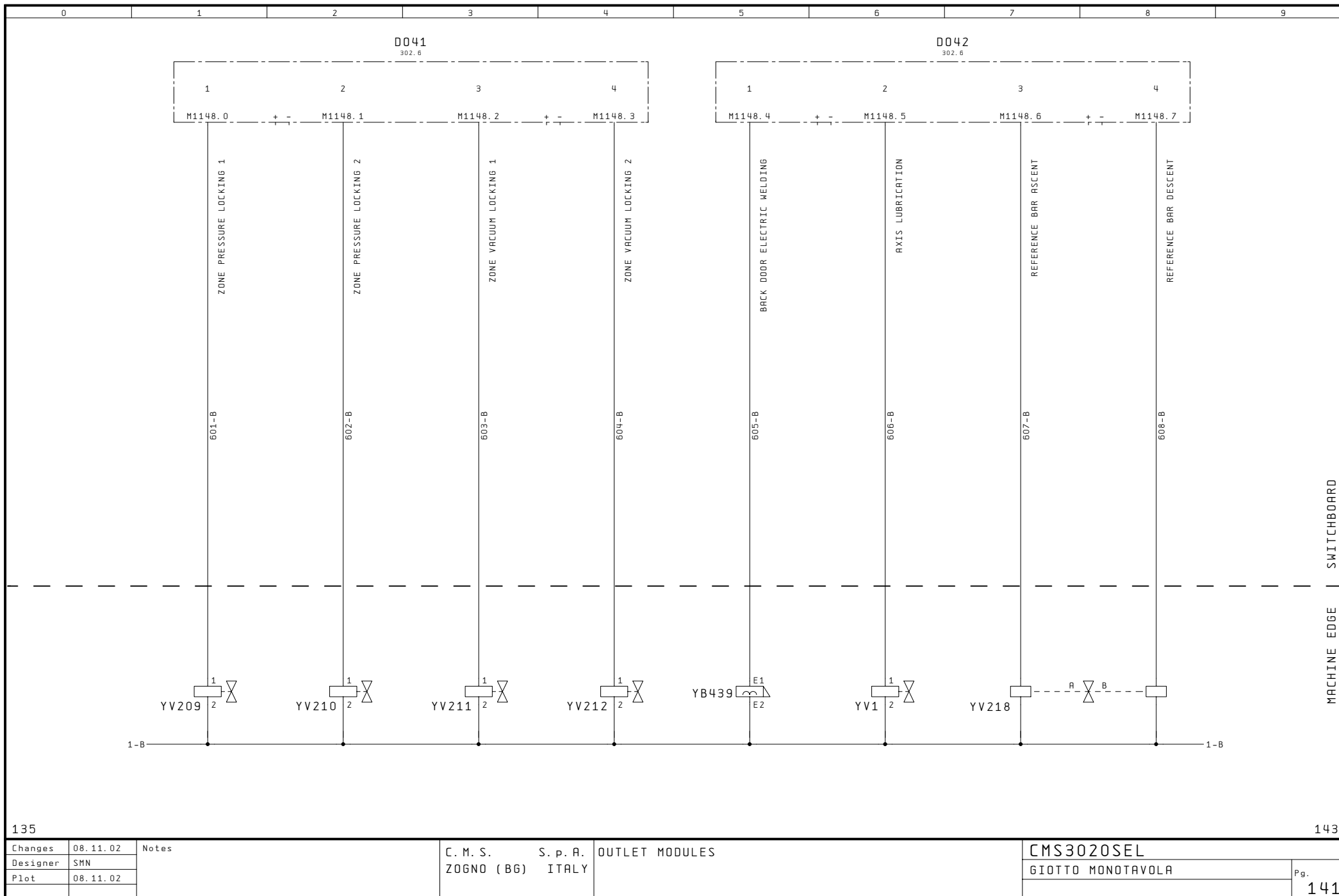
122							124	
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	INLET MODULES	CMS3020SEL			
Designer	SMN				GIOTTO MONOTAVOLA		Pg. 123	
Plot	08.11.02							

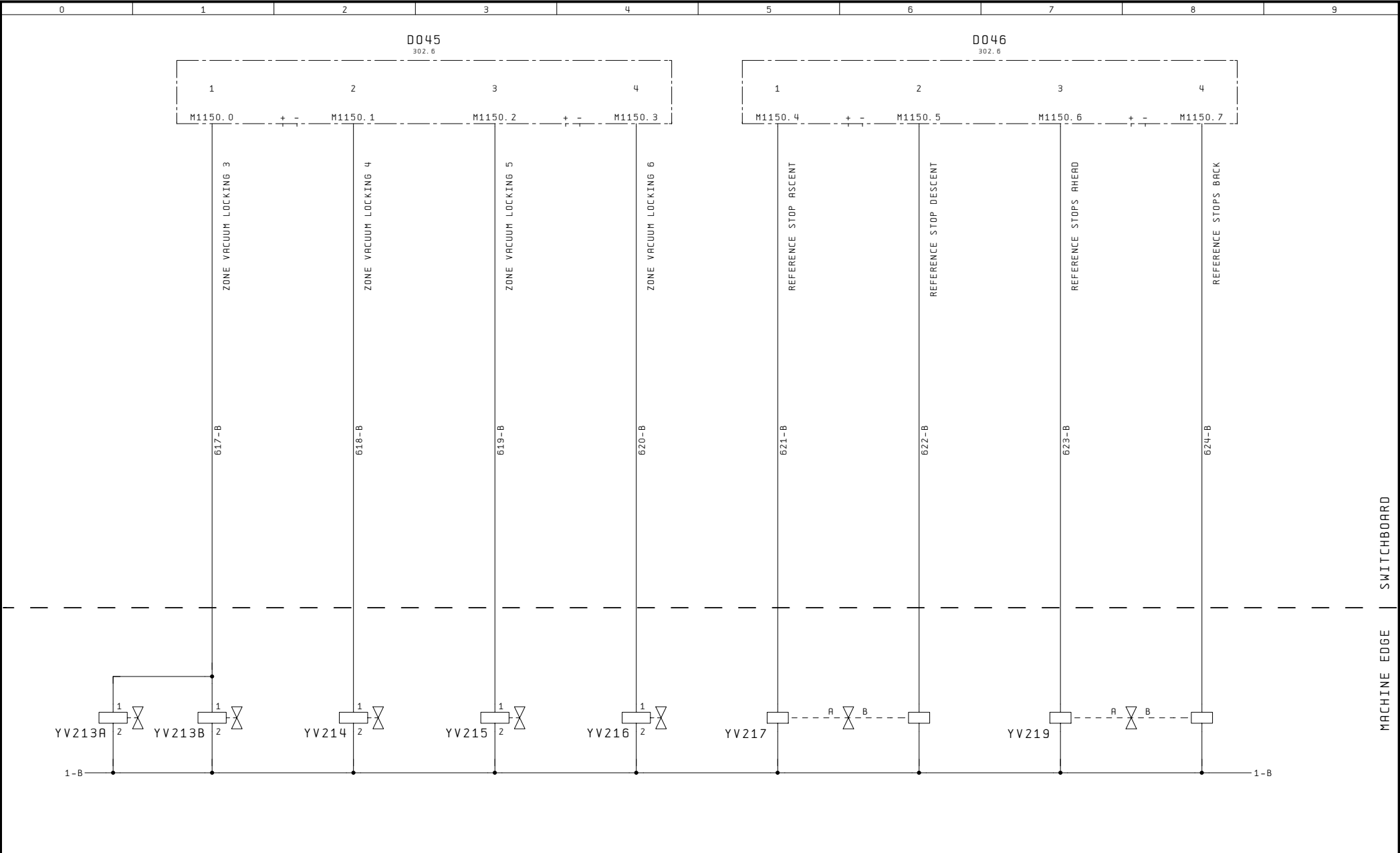




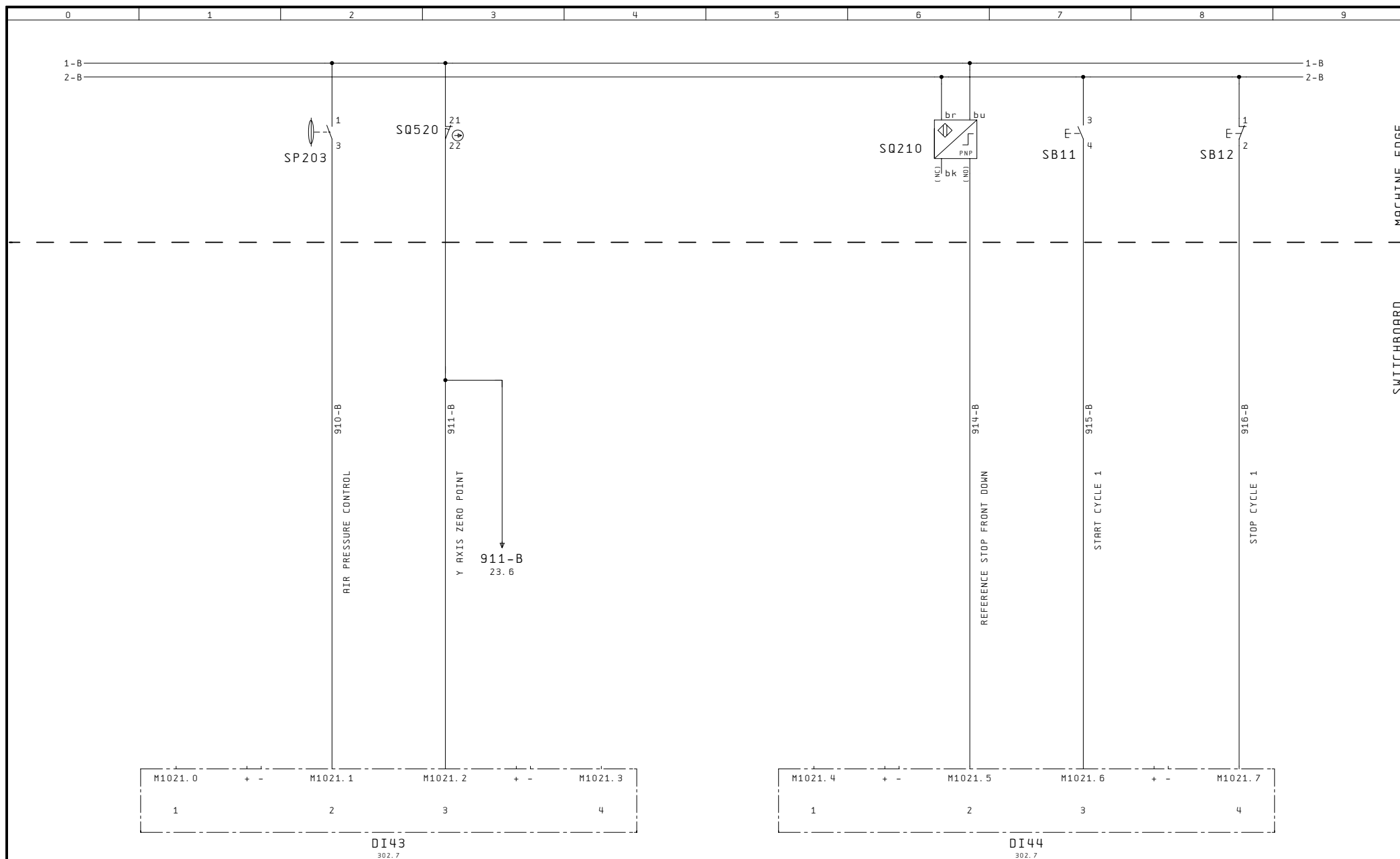








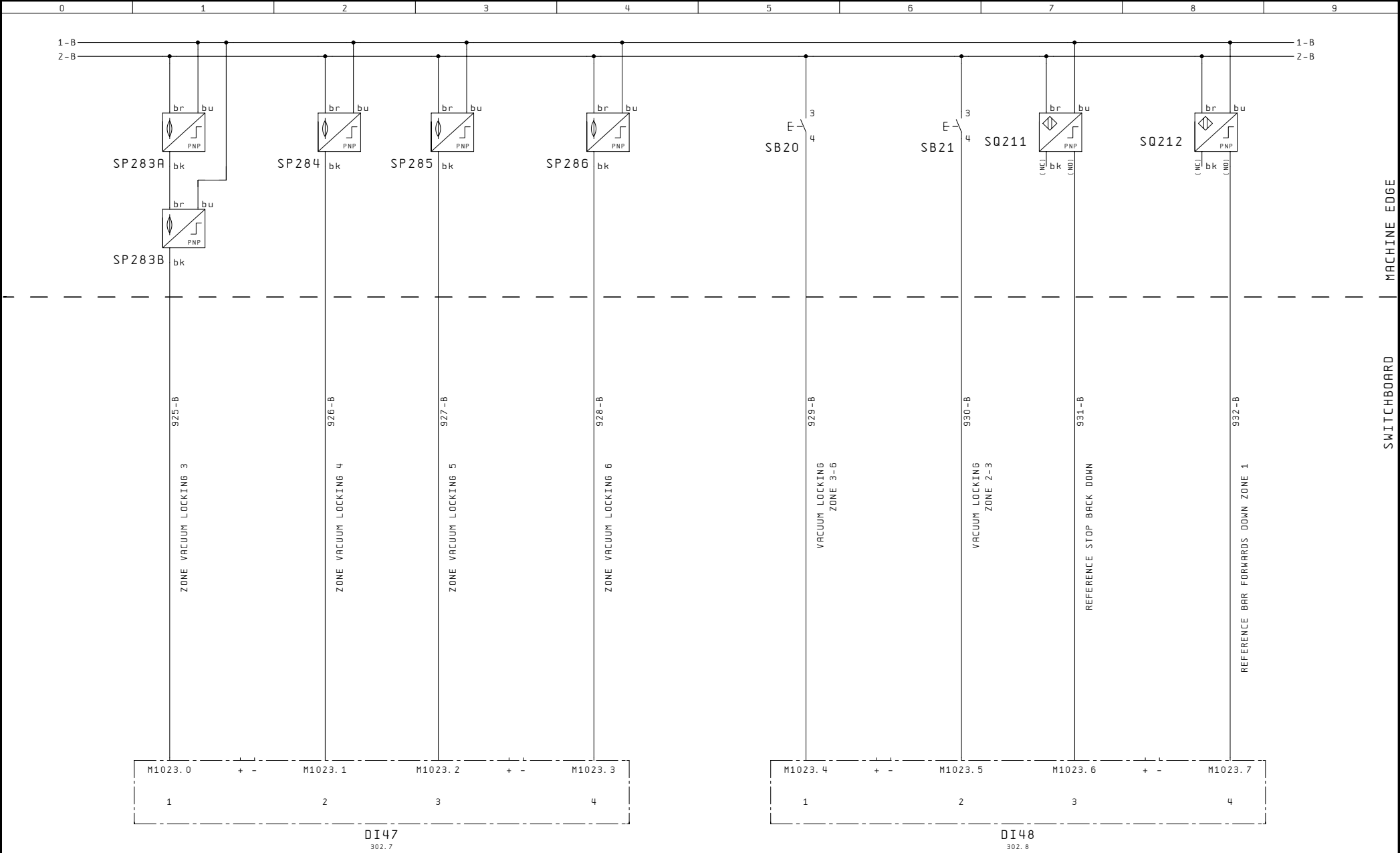
141							172	
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	OUTLET MODULES	CMS3020SEL			
Designer	SMN				GIOTTO MONOTAVOLA		Pg. 143	
Plot	08.11.02							

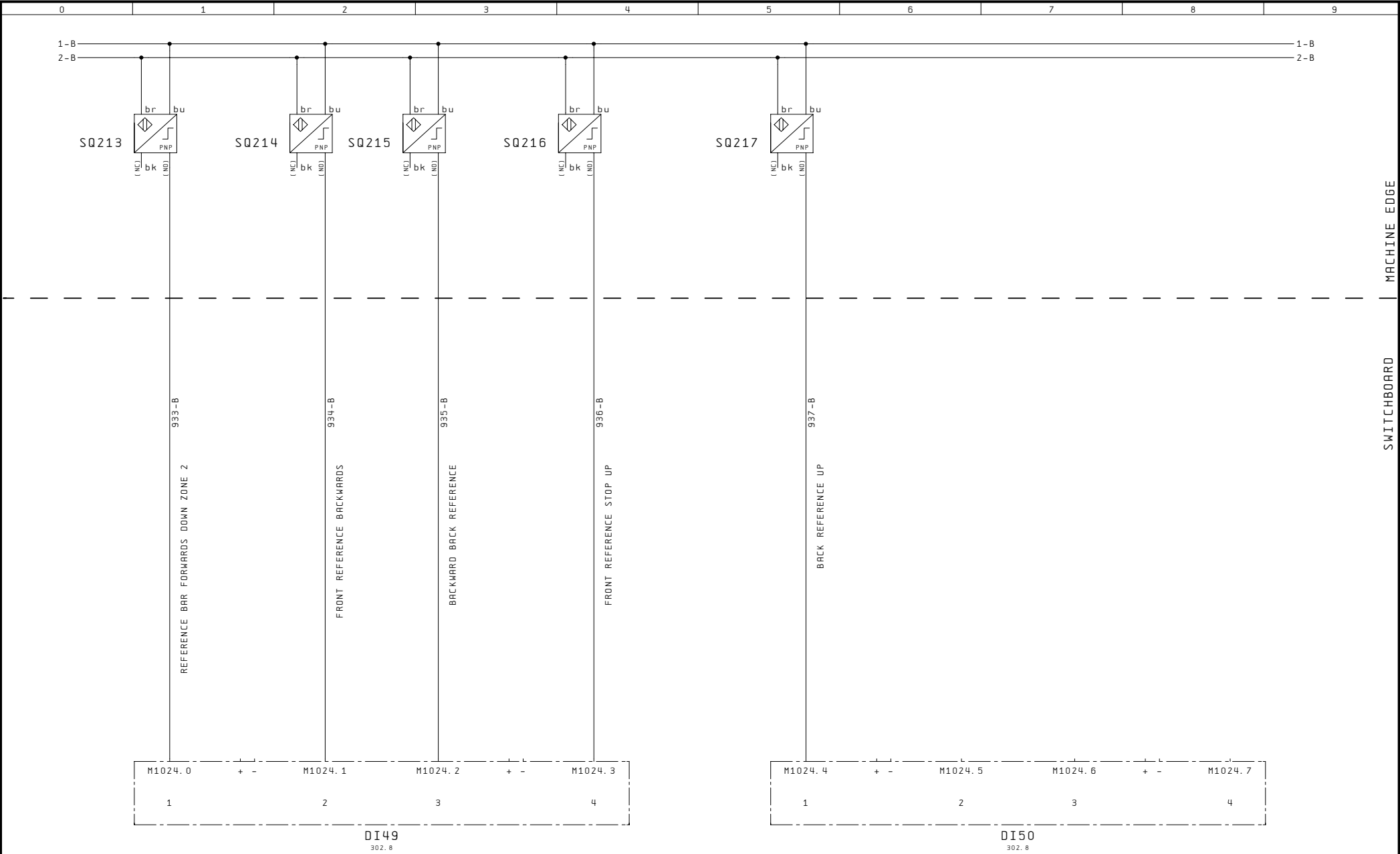


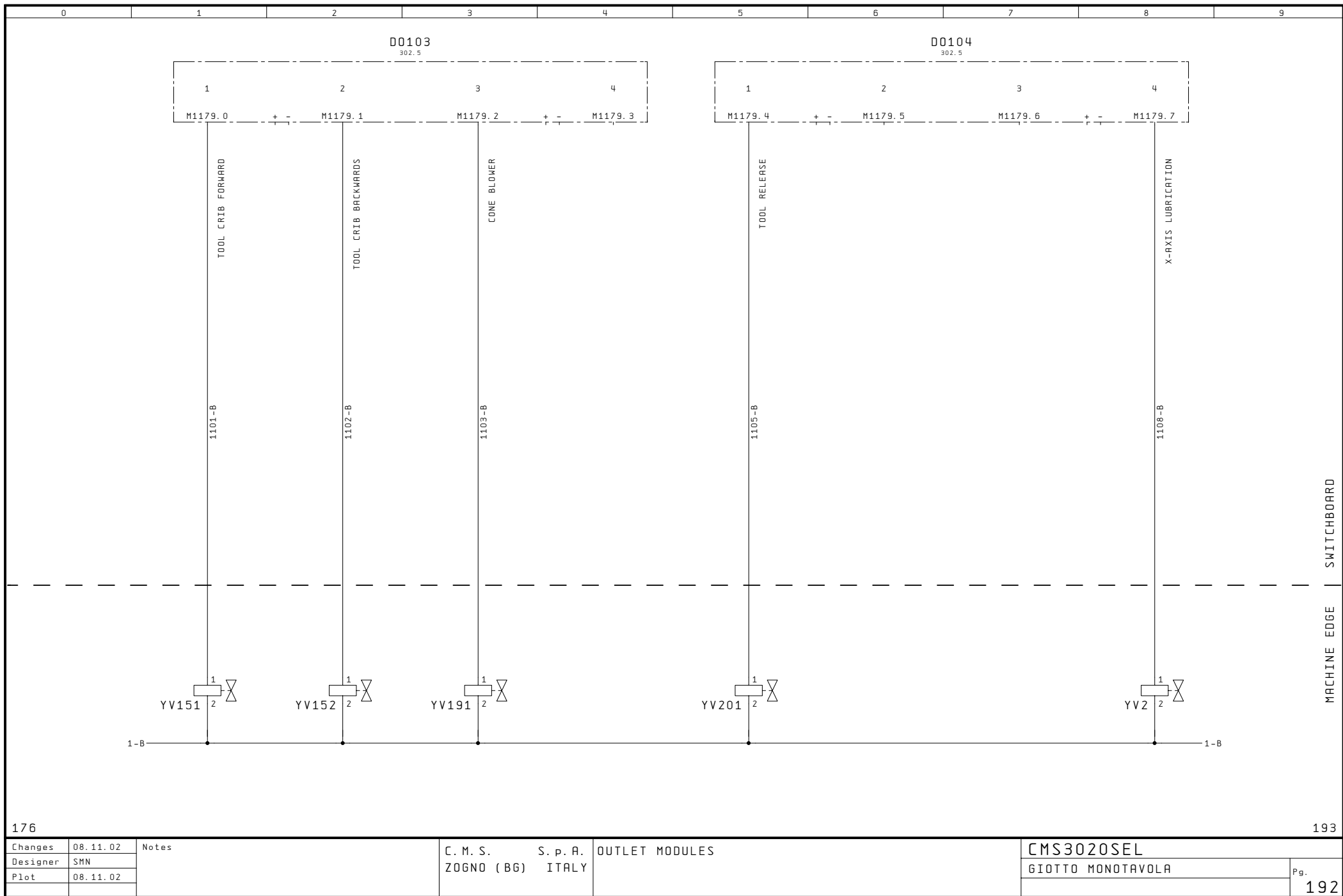
172

175

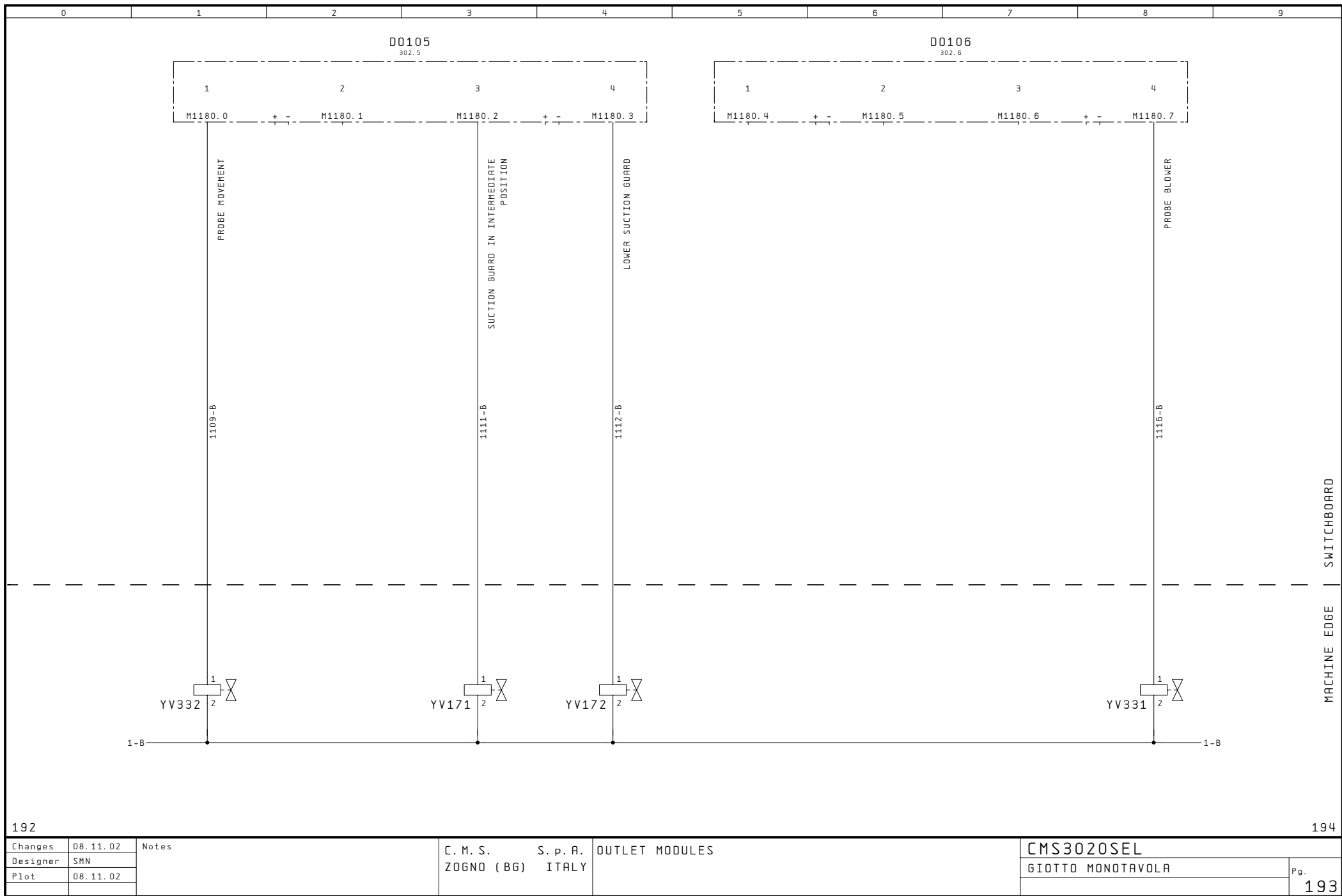
Changes	08.11.02	Notes	C. M. S. S. p. A. INLET MODULES	CMS3020SEL	
Designer	SMN			GIOTTO MONOTAVOLA	
Plot	08.11.02			Pg. 173	



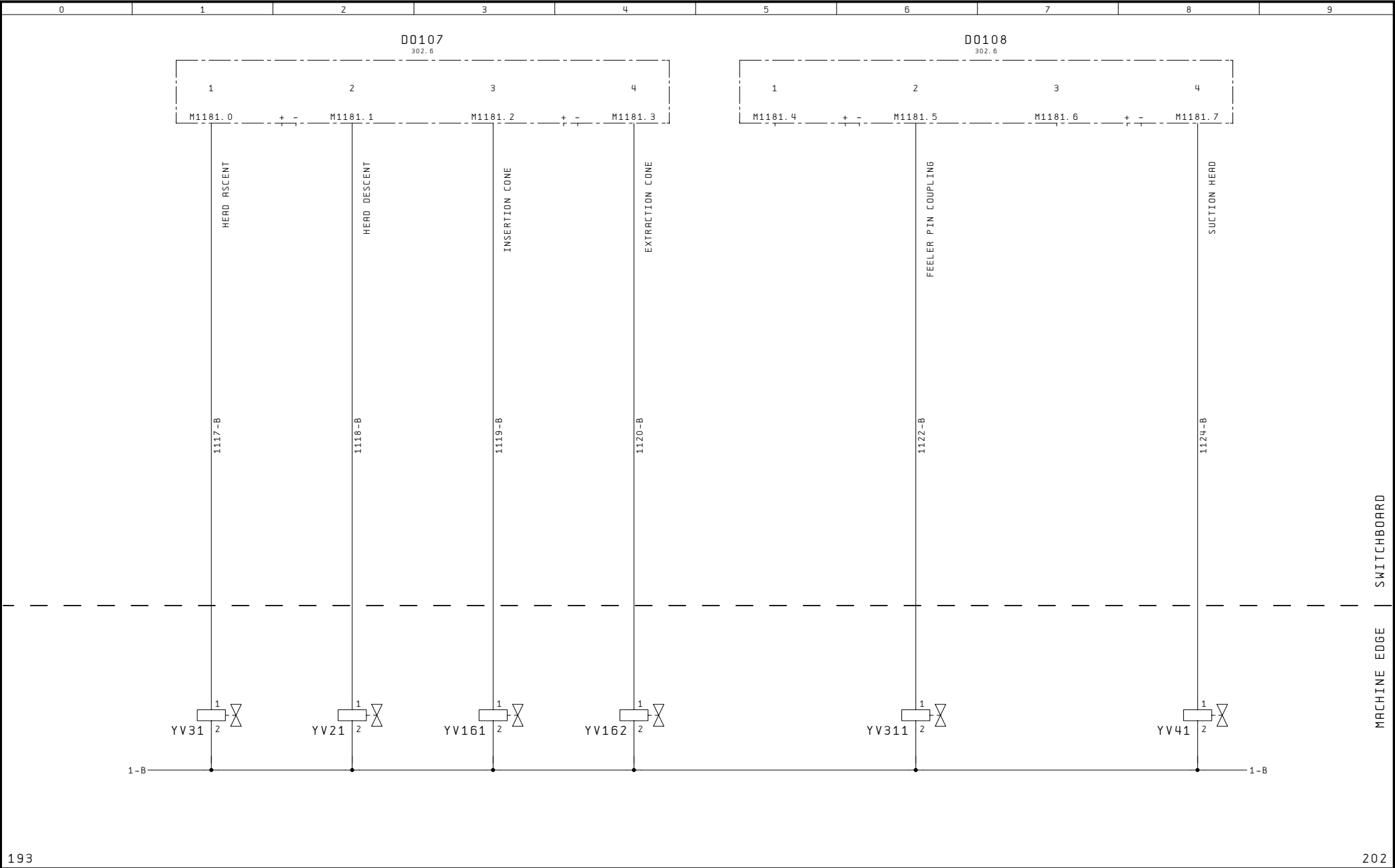


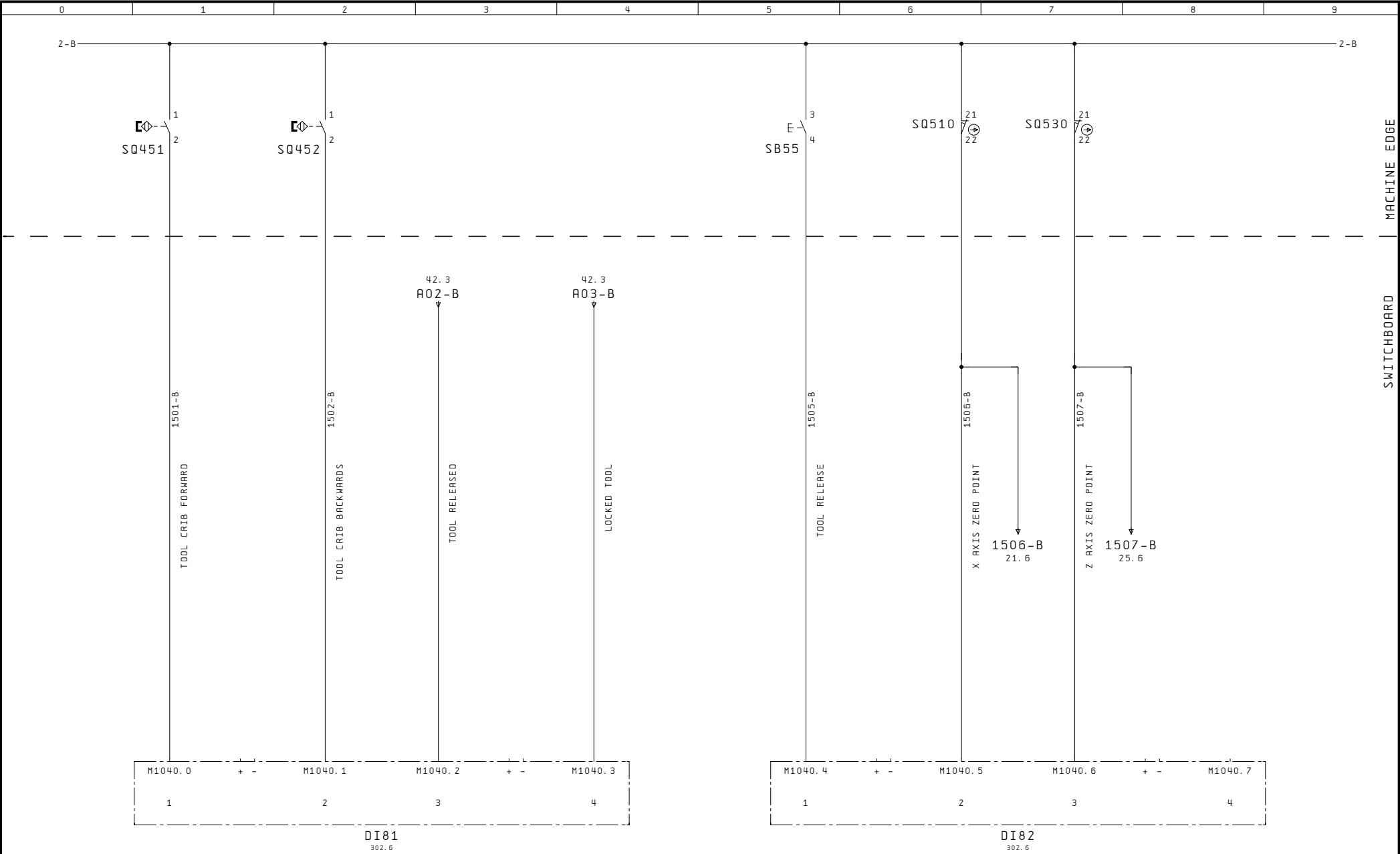


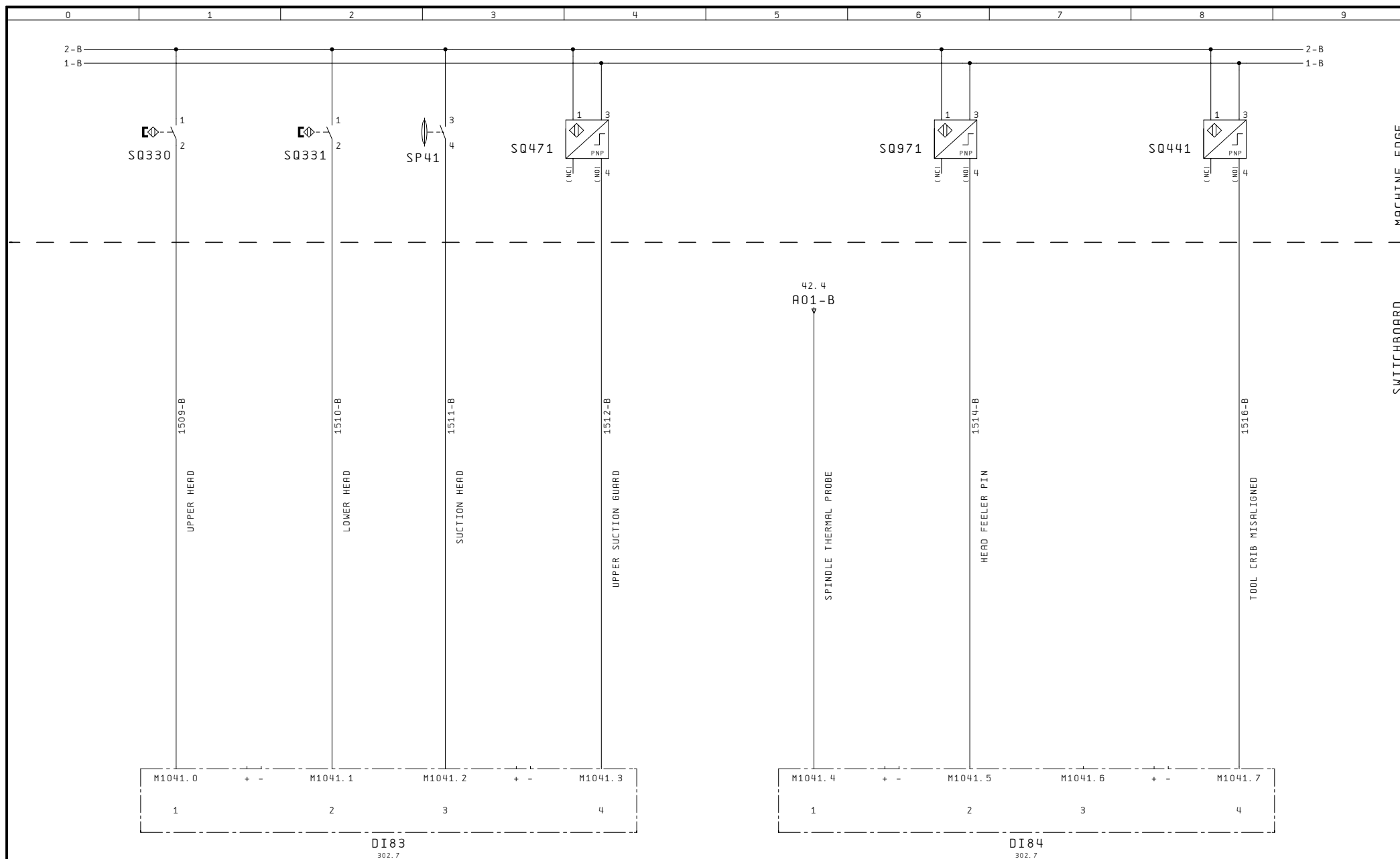
MACHINE EDGE SWITCHBOARD



MACHINE EDGE SWITCHBOARD



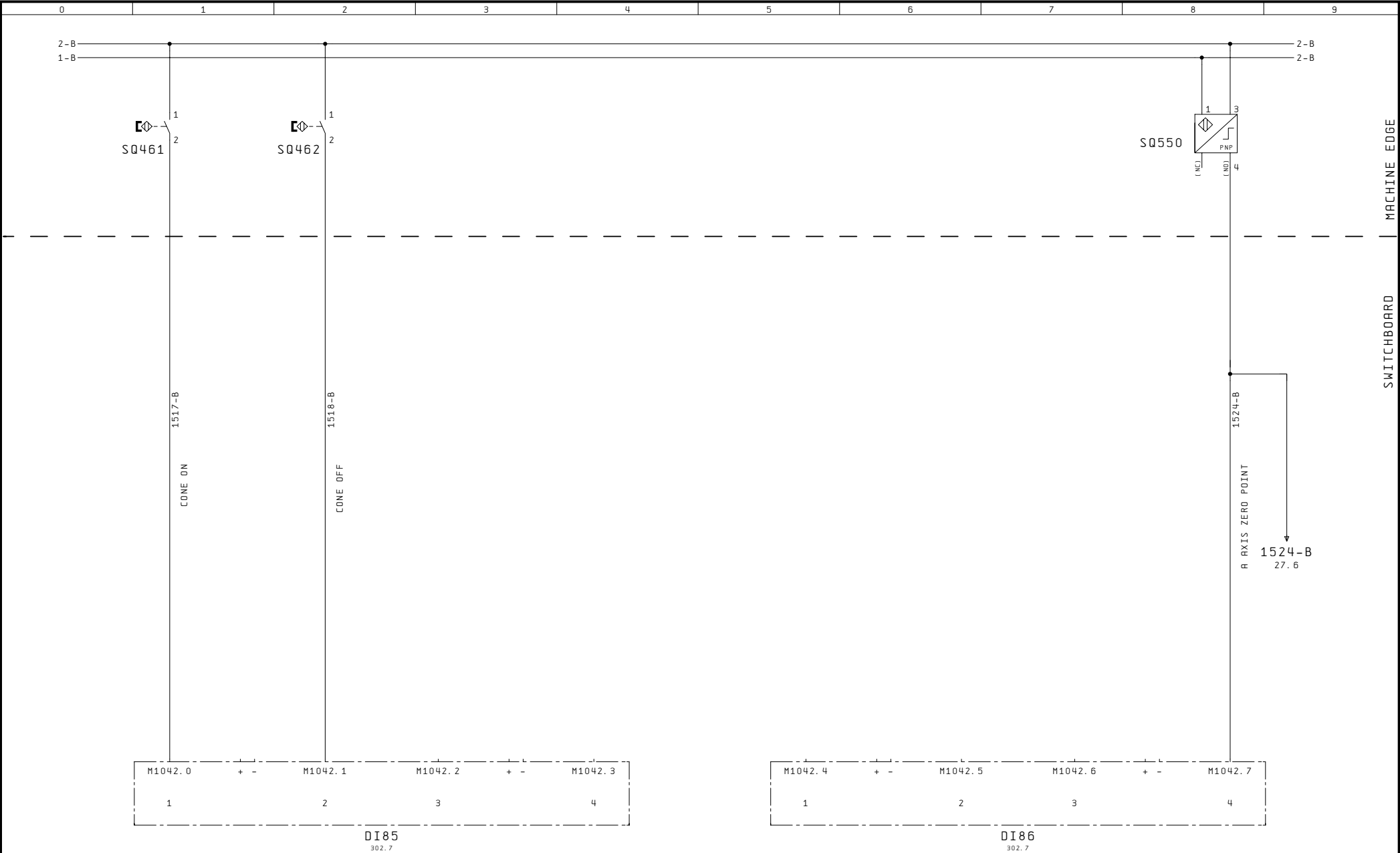




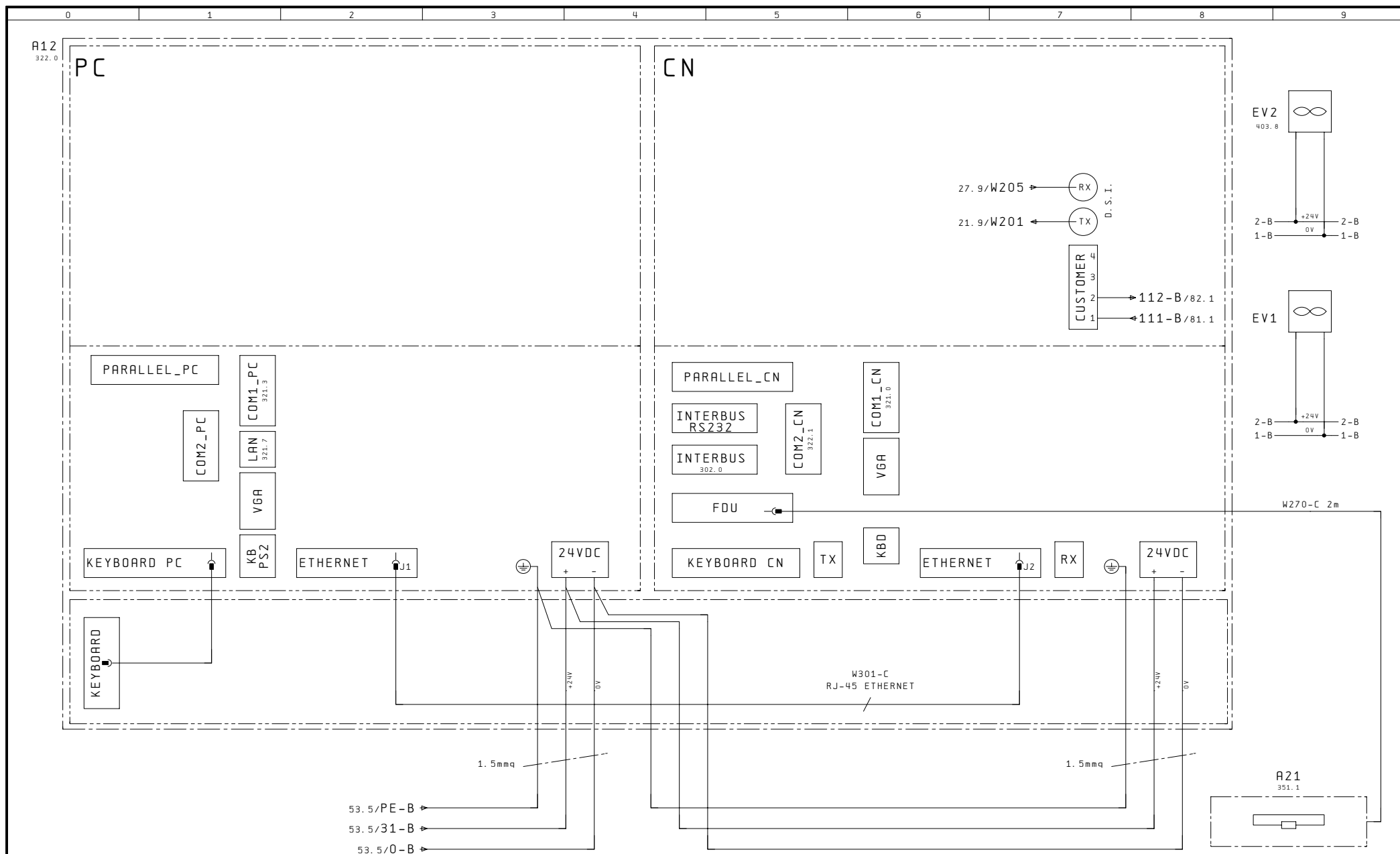
202

204

Changes	08.11.02	Notes	C. M. S. S. p. A. INLET MODULES	CMS3020SEL	
Designer	SMN			GIOTTO MONOTAVOLA	
Plot	08.11.02			Pg. 203	



203					300		
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	INLET MODULES	CMS3020SEL		
Designer	SMN				GIOTTO MONOTAVOLA		Pg. 204
Plot	08.11.02						



204

Changes	08.11.02
Designer	SMN
Plot	08.11.02

Notes

C. M. S. S. p. A.
ZOGNO (BG) ITALY

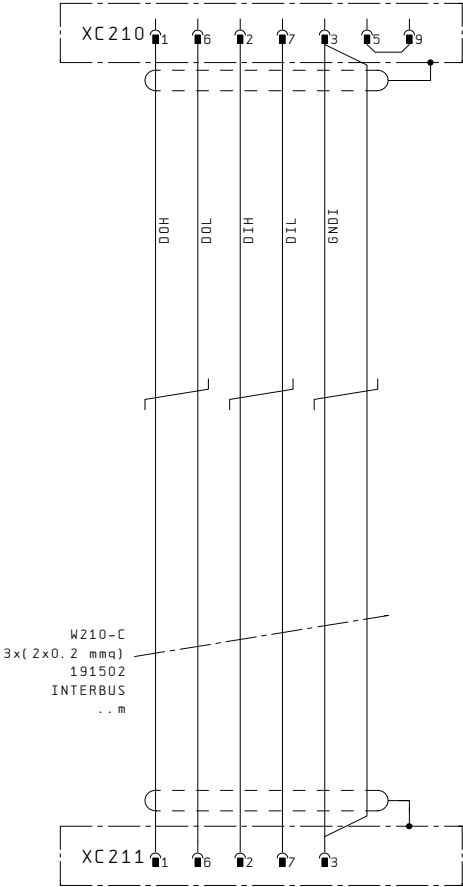
HARDWARE CONNECTION
NUMERICAL CONTROL

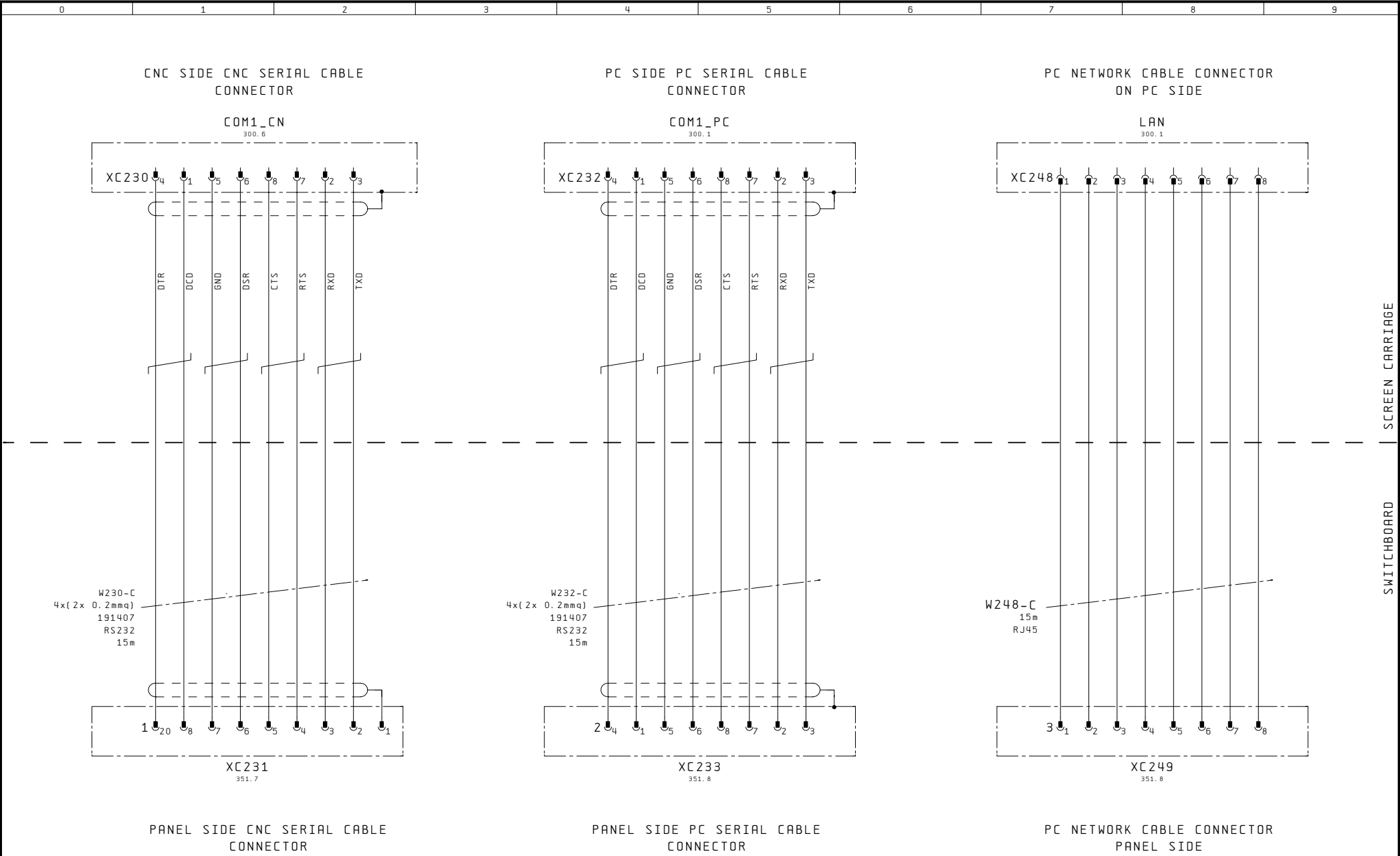
CMS3020SEL
GIOTTO MONOTAVOLA

Pg.
300

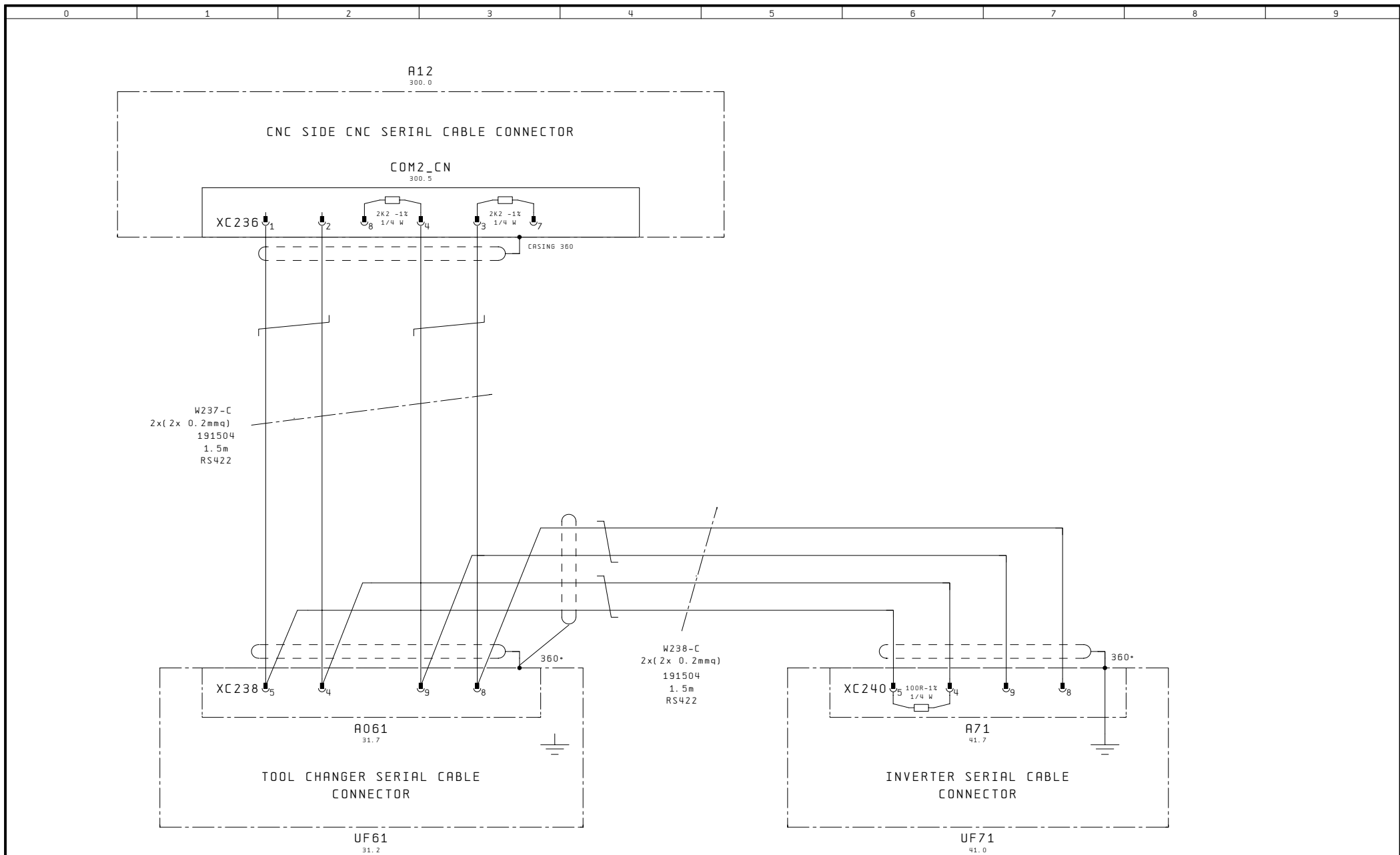
302

INTERBUS CABLE

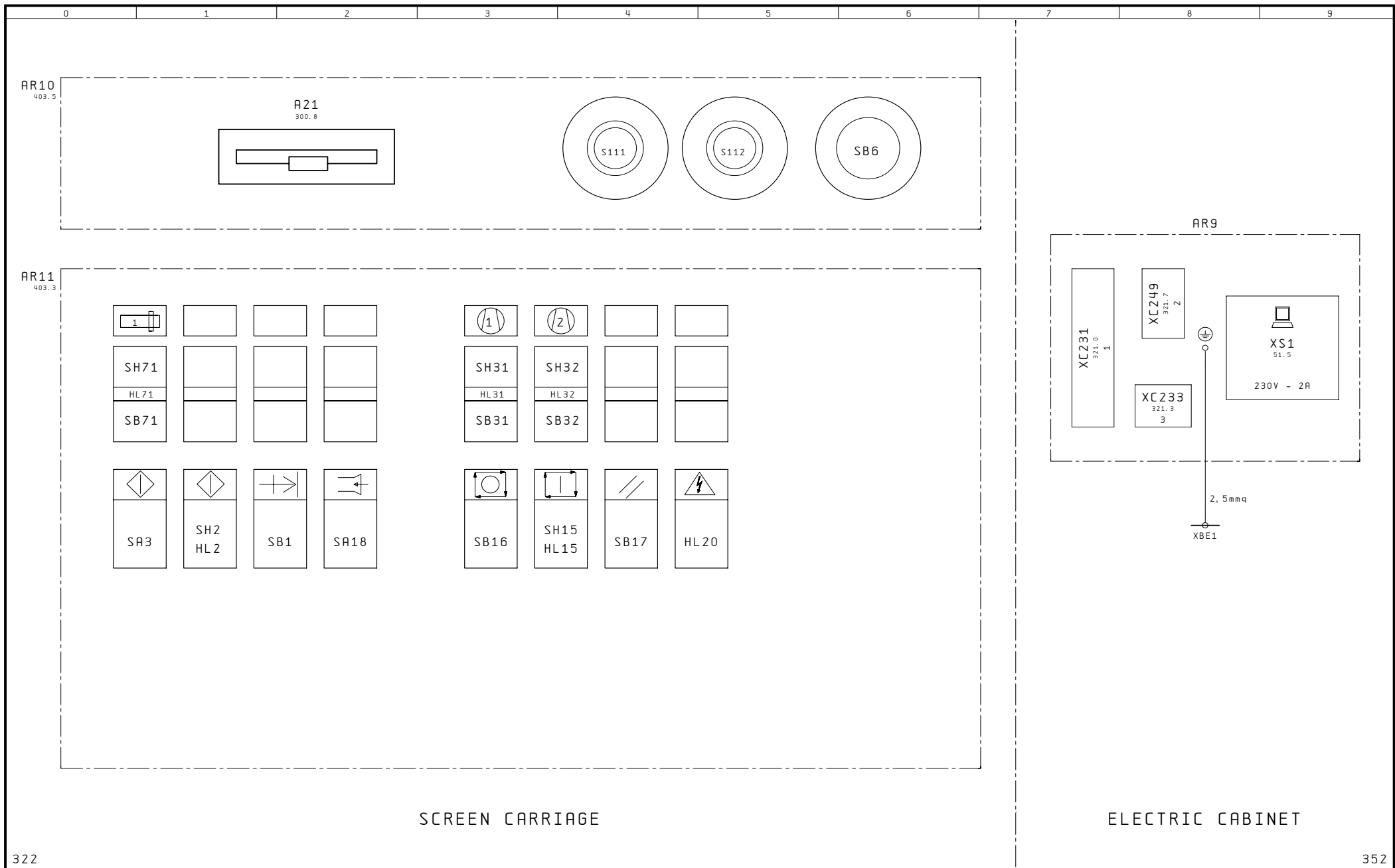


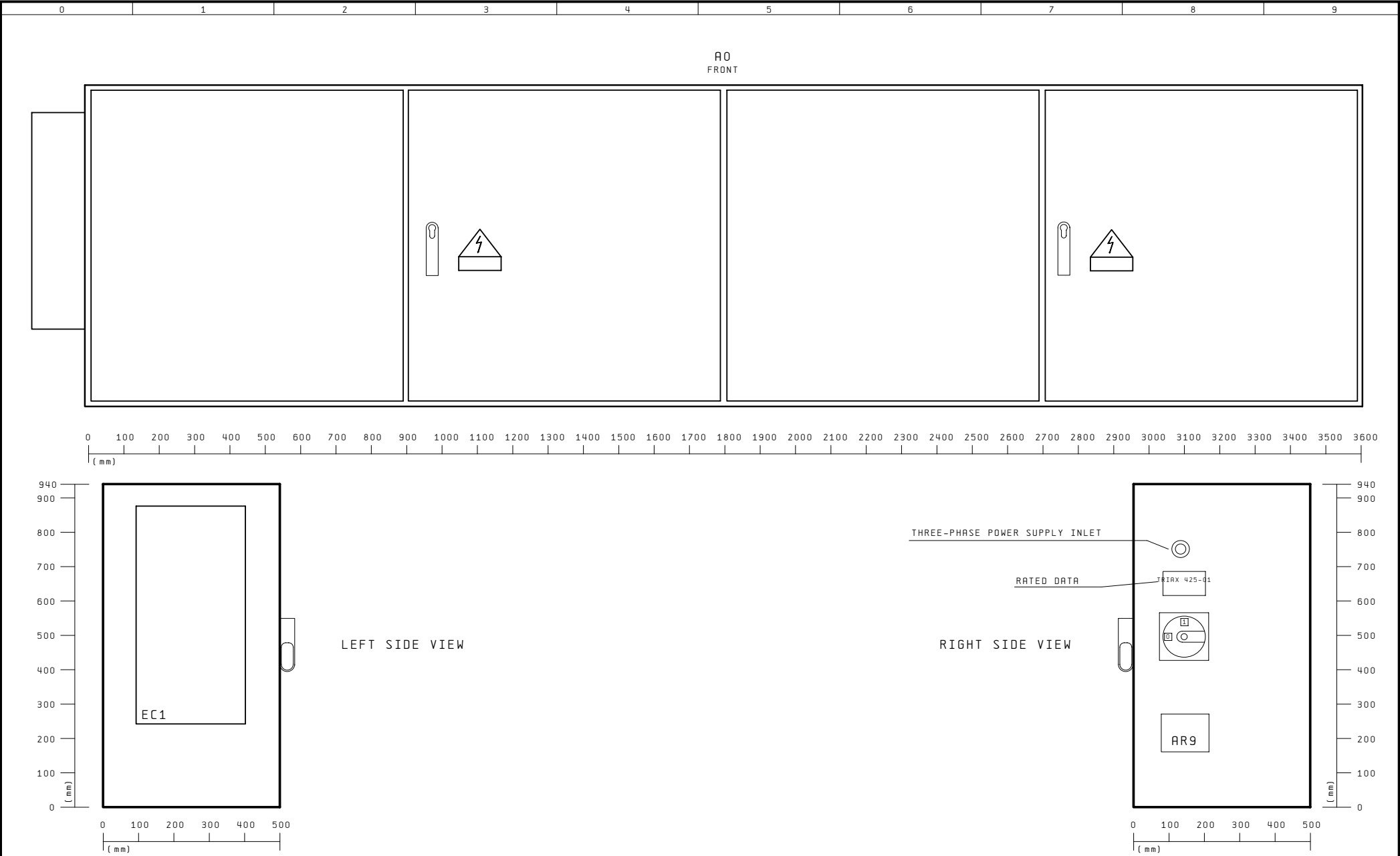


310							322	
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CABLE DESCRIPTION NUMERICAL CONTROL	CMS3020SEL			
Designer	SMN				GIOTTO MONOTAVOLA		Pg. 321	
Plot	08.11.02							

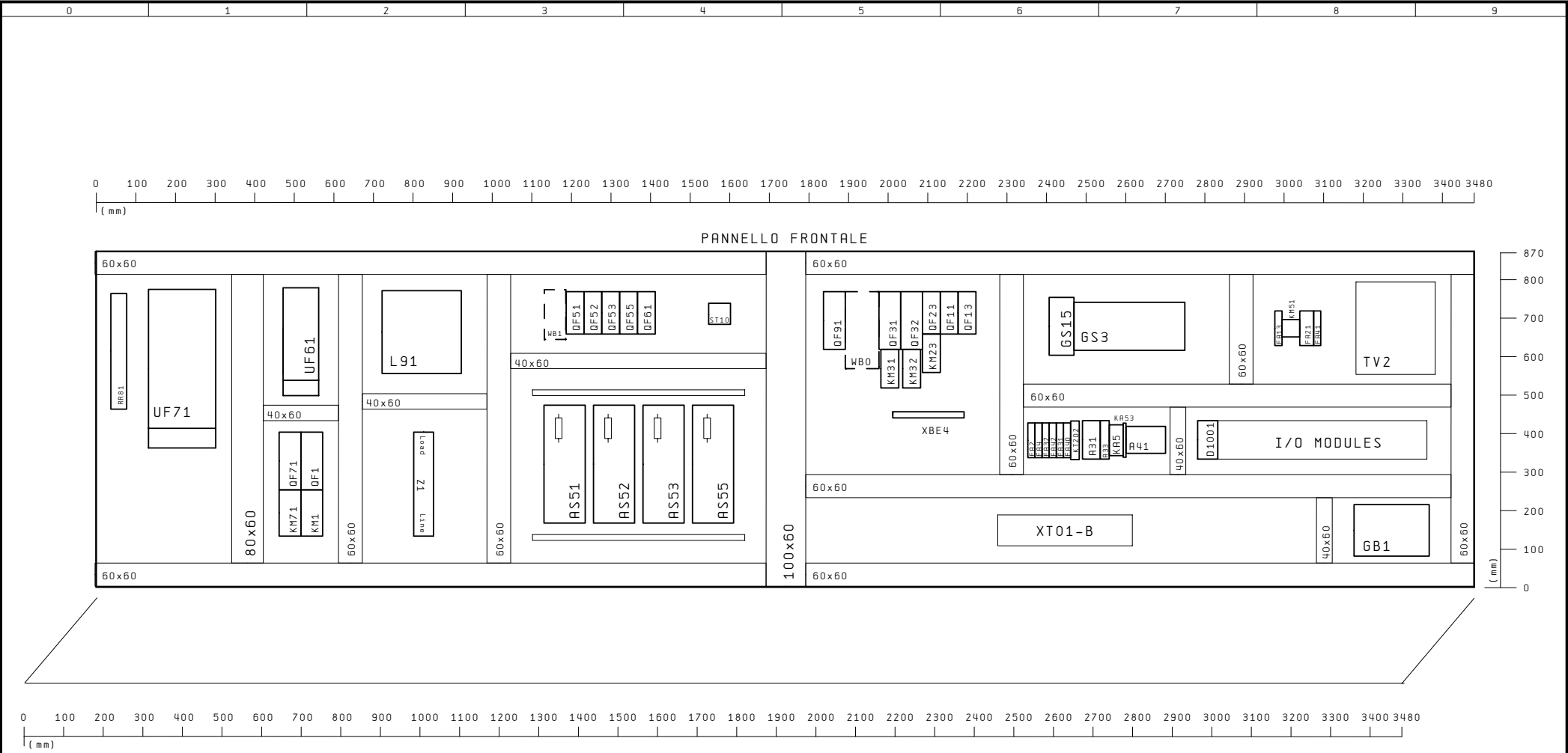


321						351
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	INVERTER SERIAL TRANSMISSION	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 322	

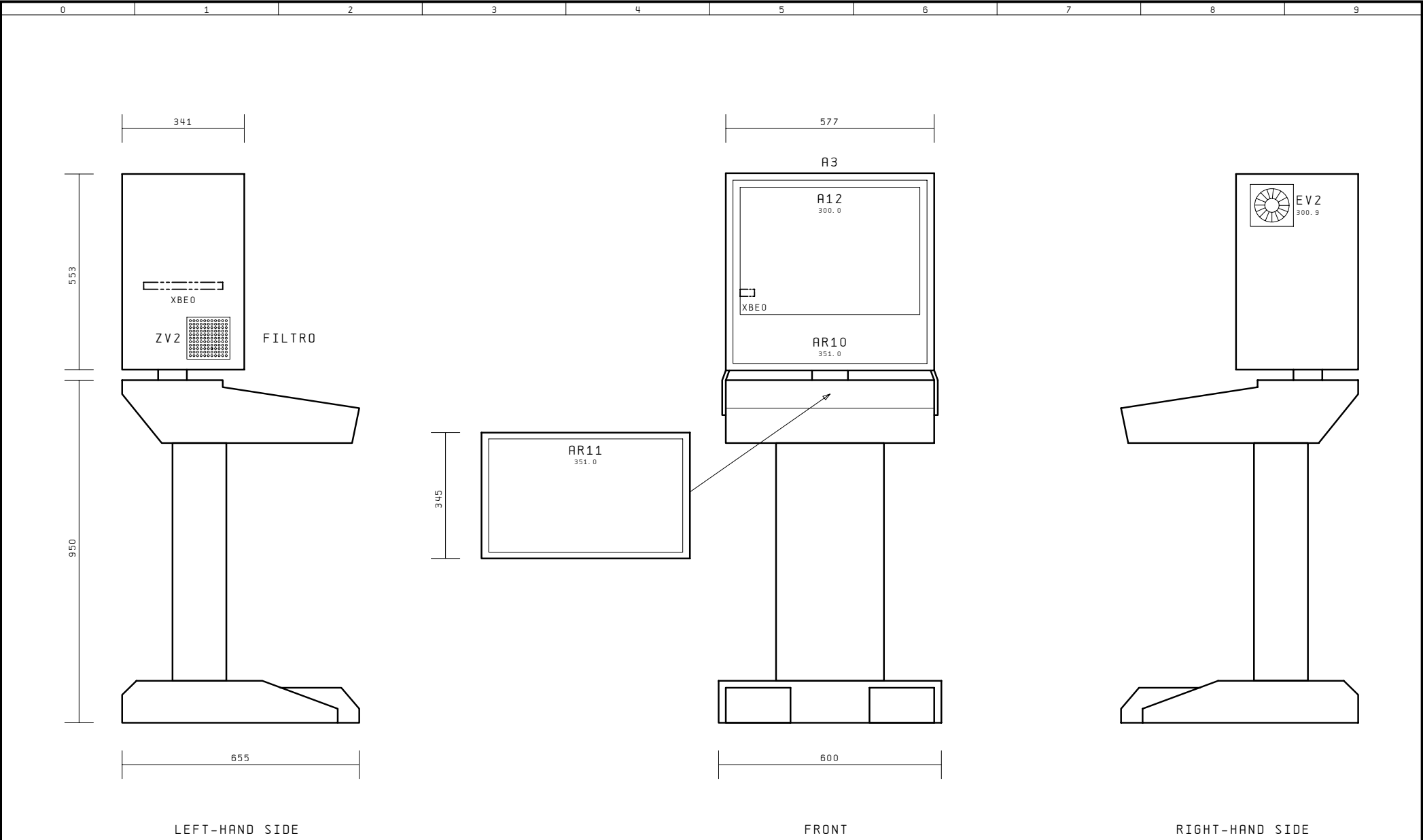




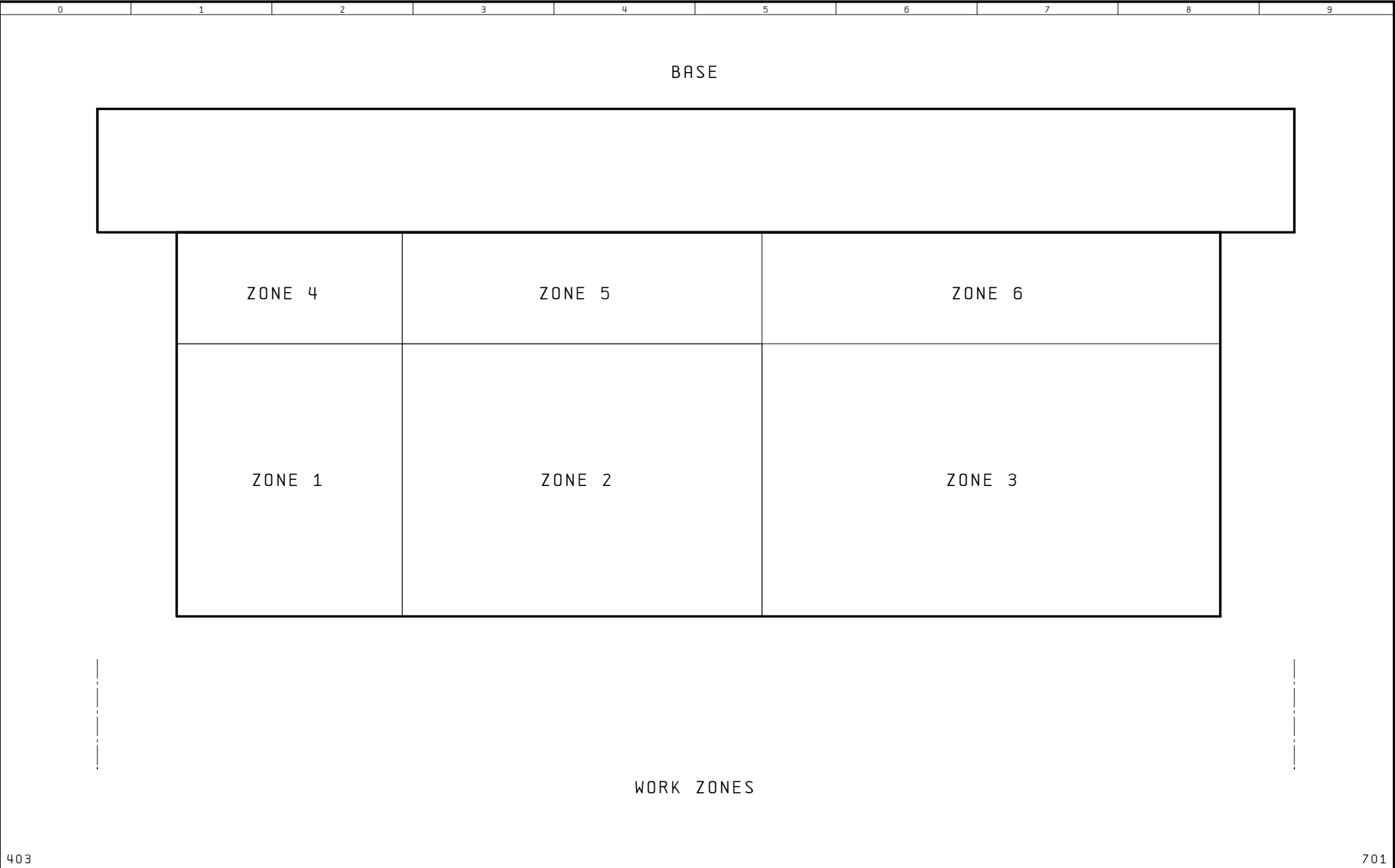
352							402	
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	ELECTRIC CABINET	CMS3020SEL			
Designer	SMN				GIOTTO MONOTAVOLA		Pg. 401	
Plot	08.11.02							



401					403				
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	COMPONENT LAYOUT	CMS3020SEL				
Designer	SMN				GIOTTO MONOTAVOLA			Pg. 402	
Plot	08.11.02								



Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	SCREEN CARRIAGE	CMS3020SEL	
Designer	SMN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 403	



FUNCTION		TERMINAL STRIP				PAGE/ COLUMN
		FROM:	TERMINAL N°	TO:		
		Bond				
0V		1	1		52.0	
0V		1	1		52.1	
0V		1	1		52.1	
0V		1	1		52.1	
0V		1	1		52.1	
0V		1	1		52.2	
GROUND		PE	PE		52.2	
SCREEN		PE	PE		52.2	
+24V		2	2		52.2	
+24V		2	2		52.3	
+24V		2	2		52.3	
+24V		2	2		52.3	
+24V		2	2		52.4	
+24V		2	2		52.4	
CONVERTER NOT READY		3	2	Z71	41.5	
OUTLET POWER SUPPLY MODULE D1001		F44	4		52.5	
P AXIS ZERO POINT		S0610	61	UF61	31.4	
CONVERTER NOT READY		Z71	71	14	41.5	
EMERGENCY PUSH-BUTTONS		CUSTOMER	112		82.1	
EMERGENCY PUSH-BUTTONS			113		82.1	
EMERGENCY PUSH-BUTTONS			113	SB6	82.1	
EMERGENCY PUSH-BUTTONS			114	SB6	82.1	
EMERGENCY PUSH-BUTTONS			114	SB7	82.2	
EMERGENCY PUSH-BUTTONS			115	SB7	82.2	
EMERGENCY PUSH-BUTTONS			115		82.2	
EMERGENCY PUSH-BUTTONS			116		82.2	
EMERGENCY PUSH-BUTTONS			116	SB8	82.2	
EMERGENCY PUSH-BUTTONS			117	SB8	82.3	
EMERGENCY PUSH-BUTTONS			117		82.3	
EMERGENCY PUSH-BUTTONS			120	SB1	82.3	
EMERGENCY PUSH-BUTTONS			120		82.3	
EMERGENCY PUSH-BUTTONS			121		82.3	
AXIS EXTRAStroke			121	S0511	82.4	
AXIS EXTRAStroke			121	S0511	82.4	
AXIS EXTRAStroke			122	S0521	82.4	
AXIS EXTRAStroke			122	S0521	82.4	
AXIS EXTRAStroke			123		82.4	
AXIS EXTRAStroke			123		82.4	
AXIS EXTRAStroke			124	S0531	82.5	
AXIS EXTRAStroke			124	S0531	82.5	
AXIS EXTRAStroke			125	S0531	82.5	
AXIS EXTRAStroke			125		82.5	
AXIS EXTRAStroke			130	SB1	82.5	
AXIS EXTRAStroke			130		82.6	
EXTERNAL SAFETY GUARDS			131		82.6	
EXTERNAL SAFETY GUARDS			131		82.6	
EXTERNAL SAFETY GUARDS			132		82.6	
EXTERNAL SAFETY GUARDS			132		82.6	
EXTERNAL SAFETY GUARDS			133		82.7	
EXTERNAL SAFETY GUARDS			133	A41	82.7	
EXTERNAL SAFETY GUARDS			134	A41	82.7	
EXTERNAL SAFETY GUARDS			134		82.7	
EXTERNAL SAFETY GUARDS			135		82.8	
EXTERNAL SAFETY GUARDS		D130	135		82.8	
SAFETY GUARDS			136	S0439	82.8	
SAFETY GUARDS			137	S0439	82.8	
SAFETY GUARDS			137		82.8	
RECEIVER		A31	150		82.9	
RECEIVER		A41	181	A51	84.1	
RECEIVER		A41	182	A51	84.1	
RECEIVER		A41	183	A51	84.2	
PROJECTOR		A41	184	A61	84.2	
BARRIER ACTIVATION		A41	185	SH4	84.7	
BARRIER ACTIVATION		A41	186	SH4	84.8	
BARRIER ACTIVATED		D111	187	HL4	84.8	
ADVANCE NOTICE CALL LOAD-DISCHARGE		009	233		105.1	
CALL LOAD		009	234		105.2	
CALL DISCHARGED		009	235		105.3	
WORKPIECE CLAMP		009	236		105.4	
FRONTAL BAR IN POSITION		0010	238		105.6	
PRESS UP			443	D111	126.3	
LOADER IN DISCHARGED POSITION			444	D111	126.4	

CMS1005

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BASE LIST

IEC1033

SIGN.	Q. TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
A0	1	ELECTRIC CABINET	3600X940X500	PD 675/91	SIM	183394	401. 240
A0	1	MAIN POWER SUPPLY PLATE	TRIAx-425-01			819500	401. 240
A0	2	ADHESIVE PLATE		3. 35		130650	401. 240
A3	1	SCREEN CARRIAGE	KOMMANDER	PD 675/78	SIM	183389	403. 5
A12	1	OSAI 10/510 8 AXES DIG.			OSAI	103157	300. 0
A21	1	FLOPPY DISK DRIVE UNIT	CN OSAI	F0U1	SOLUZIONI-IT	103228	300. 8
A31	1	SAFETY MODULE	24VDC	PN0Z X3	PILZ	140041	81. 1
A32	1	DELAYED MODULE	24VDC	PZE X4V	PILZ	140034	81. 6
A41	1	CONTROL UNIT	AU-S-TWIN	1201708	REER	160411	84. 1
A061	1	OPERATOR 232/422/485		00. F4. 010-1009	KEB	151371	31. 7
A71	1	OPERATOR 232/422/485		00. F4. 010-1009	KEB	151371	41. 7
AR9	1	CONNECTOR AND OUTLET PANEL	113X130MM	67699	MURRELEKTRONIK	130566	351. 7
AR10	1	ALUMINIUM PANEL	483X500	PD 675/79	SIM	183268	403. 5
AR11	1	ALUMINIUM PANEL	483X300	PD 675/81	SIM	183269	403. 3
AR21	1	PUSH-BUTTON PANEL		XAP-M34	CEMA	131000	352. 1
AR22	1	PUSH-BUTTON PANEL		SV4	ERSCE	131024	352. 6
AS51	1	DIGITAL ACTUATOR	DAM 60 - 12/24	93301454P	OSAI	104023	21. 0
AS52	1	DIGITAL ACTUATOR	DAM 60 - 12/24	93301454P	OSAI	104023	23. 0
AS53	1	DIGITAL ACTUATOR	DAM 60 - 06/12	933014530	OSAI	104022	25. 0
AS55	1	DIGITAL ACTUATOR	DAM 60 - 03/06	933014586	OSAI	104021	27. 0
D901	1	NODE TERMINATION		750-600	WAGO	103137	302. 7
D951	1	POWER SUPPLY	24VDC	750-602	WAGO	103141	302. 5
D1001	1	COUPLER	INTERBUS S DIG	750-324	WAGO	103136	302. 1
DI1	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 3
DI2	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 3
DI3	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 3
DI4	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 4
DI5	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 4
DI6	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 4
DI7	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 4
DI8	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 4
DI9	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 5
DI10	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 5
DI11	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 5
DI12	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 5
DI29	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 5
DI30	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 6
DI41	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7
DI42	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7
DI43	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7
DI44	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7
DI47	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7
DI48	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 8
DI49	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 8
DI50	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 8
DI81	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 6
DI82	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 6
DI83	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7
DI84	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7
DI85	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302. 7

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Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST	CMS3020SEL	
Designer	ADR				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 801	

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BASE LIST									
								IEC1033	
SIGN.	Q. TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN		
D186	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	302.7		
D01	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.2		
D02	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.2		
D03	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.2		
D04	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.2		
D09	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.3		
D010	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.3		
D041	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.6		
D042	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.6		
D045	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.6		
D046	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.6		
D0103	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.5		
D0104	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.5		
D0105	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.5		
D0106	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.6		
D0107	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.6		
D0108	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	302.6		
EC1	1	CONDITIONER	800W - 50HZ	PLC 4180	SIM	152083	51.2		
EV1	1	FAN	24VDC	4184 NX-24VDC	PAMOCO	150569	300.9		
EV2	1	FAN	24VDC	4314-180	PAMOCO	150559	300.9		
EV2	1	FAN COVER GRILL				150577	300.9		
FA2	1	MONOPOLAR AUTOMATIC SWITCH	4A	5SY6104-7BB	SIEMENS	121128	52.2		
FA4	1	MONOPOLAR AUTOMATIC SWITCH	10A	5SY6110-7BB	SIEMENS	121123	52.5		
FA13	1	MONOPOLAR AUTOMATIC SWITCH	6A	6SY6106-7BB	SIEMENS	121119	51.2		
FA21	1	MAGNETOTHERMAL DIFFERENTIAL SWITCH	6A	5SU 3747-0KV06	SIEMENS	121001	51.5		
FA31	1	MONOPOLAR AUTOMATIC SWITCH	6A	6SY6106-7BB	SIEMENS	121119	53.5		
FA32	1	MONOPOLAR AUTOMATIC SWITCH	2A	5SY 4102.5	SIEMENS	121081	52.7		
FA40	1	MONOPOLAR AUTOMATIC SWITCH	4A	5SY6104-7BB	SIEMENS	121128	53.7		
FA41	1	MONOPOLAR AUTOMATIC SWITCH	10A	5SY6110-7BB	SIEMENS	121123	51.7		
FA42	1	MONOPOLAR AUTOMATIC SWITCH	4A	5SY6104-7BB	SIEMENS	121128	52.8		
GB1	1	DC-USV ACCUMULATOR15	7AH	6EP1935-6ME21	SIEMENS	101088	53.4		
GS3	1	24V POWER SUPPLY	400/24V 20A	6EP1436-2BA00	SIEMENS	101068	52.1		
GS15	1	SITOP MODULE DC-USV15	15A	6EP1931-2EC01	SIEMENS	101086	53.0		
HL2	1	LAMP	60MA 28V	7458/935	REER	130250	81.8		
HL4	1	LAMP	60MA 28V	7458/935	REER	130250	84.8		
HL15	1	LAMP	60MA 28V	7458/935	REER	130250	102.5		
HL20	1	LAMP HOLDER		800E-2DLO	ALLEN-BRADLEY	130353	52.4		
HL20	1	WHITE INDICATOR LAMP		800EM-P7	ALLEN-BRADLEY	130385	52.4		
HL20	1	LAMP	60MA 28V	7458/935	REER	130250	52.4		
HL31	1	LAMP	60MA 28V	7458/935	REER	130250	101.1		
HL32	1	LAMP	60MA 28V	7458/935	REER	130250	101.5		
HL71	1	LAMP	60MA 28V	7458/935	REER	130250	102.1		
INTERBUS	1	CUP CONNECTOR	9 P. M.	SUB-D 9	COMSEL	190728	300.4		
INTERBUS	1	METALIZED PLASTIC CAP	9 P.	FKC16A	ELCOM	191300	300.4		
KA5	1	SAFETY CUTOUT RELAY	EMRSI 3+1	31E0117295	EUROGI	141211	101.6		
KA53	1	MODULAR RELAY	230V 6A COSFI' 1	38-51-7-024-0050	FINDER	170700	101.8		
KM1	1	CONTRACTOR	15KW S2	3RT1034-1BB40	SIEMENS	120143	81.7		
KM1	1	CONTACTS BLOCK	1NC	3RH1921-1CA01	SIEMENS	120229	81.7		
KM1	1	FILTER	RC S2 S3	3RT1936-1CB00	SIEMENS	141209	81.7		
KM23	1	CONTRACTOR	7.5KW S0	3RT1025-1BB40	SIEMENS	120142	44.1		

Changes	08.11.02	Notes	C. M. S.	S. p. A.	BASIC SPARE PARTS LIST	CMS3020SEL			
Designer	ADR					GIOTTO MONOTAVOLA			
Plot	08.11.02					Pg. 802			

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BASE LIST

IEC1033

SIGN.	Q. TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
KM23	1	FILTER	RC S0	3RT1926-1CB00	SIEMENS	141207	44. 1
KM31	1	CONTACTOR	15KW S2	3RT1034-1BB40	SIEMENS	120143	101. 1
KM31	1	FILTER	RC S2 S3	3RT1936-1CB00	SIEMENS	141209	101. 1
KM32	1	CONTACTOR	15KW S2	3RT1034-1BB40	SIEMENS	120143	101. 5
KM32	1	FILTER	RC S2 S3	3RT1936-1CB00	SIEMENS	141209	101. 5
KM51	1	4-POLE CONTACTOR	24V	3RT1316-1BB40	SIEMENS	120138	101. 1
KM51	1	FILTER	RC S00	3RT1916-1CB00	SIEMENS	141206	101. 4
KM71	1	CONTACTOR	15KW S2	3RT1034-1BB40	SIEMENS	120143	102. 1
KM71	1	CONTACTS BLOCK	1NC	3RH1921-1CA01	SIEMENS	120229	102. 1
KM71	1	FILTER	RC S2 S3	3RT1936-1CB00	SIEMENS	141209	102. 1
KT202	1	ELECTRONIC TIME RELAY	24V	3RP1540-1AB30	SIEMENS	120400	101. 2
L91	1	THREE-PHASE INDUCTANCE	L=540μH 59A 50/60HZ	RT-01K2-AN	EUROTRAFO	141290	20. 1
QF1	1	TRIPOLAR AUTOMATIC SWITCH	32A S2	3RV1331-4EC10	SIEMENS	121183	20. 1
QF11	1	TRIPOLAR AUTOMATIC SWITCH	5,5-8A S0	3RV1421-1HA10	SIEMENS	121176	51. 2
QF11	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	51. 2
QF13	1	TRIPOLAR AUTOMATIC SWITCH	2, 2-3, 2A S0	3RV1021-10A10	SIEMENS	121164	52. 2
QF13	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	52. 2
QF23	1	TRIPOLAR AUTOMATIC SWITCH	11-16A S0	3RV1021-4AA10	SIEMENS	121169	11. 7
QF23	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	11. 7
QF23	1	CONTACTS BLOCK	1NO+1NC	3RV1901-1D	SIEMENS	120232	11. 7
QF31	1	TRIPOLAR AUTOMATIC SWITCH	14-20A S2	3RV1031-4BA10	SIEMENS	121170	11. 2
QF31	1	ADAPTER	242X54MM S2	W 32009 + W 32940	WOHNER	120838	11. 2
QF31	1	CONTACTS BLOCK	1NO+1NC	3RV1901-1D	SIEMENS	120232	11. 2
QF32	1	TRIPOLAR AUTOMATIC SWITCH	14-20A S2	3RV1031-4BA10	SIEMENS	121170	11. 4
QF32	1	ADAPTER	242X54MM S2	W 32009 + W 32940	WOHNER	120838	11. 4
QF32	1	CONTACTS BLOCK	1NO+1NC	3RV1901-1D	SIEMENS	120232	11. 4
QF51	1	TRIPOLAR AUTOMATIC SWITCH	16A S0	3RV1321-4AC10	SIEMENS	121188	20. 3
QF51	1	ADAPTER	121X45MM S00 S0	8US1051-5DJ07	SIEMENS	120834	20. 3
QF52	1	TRIPOLAR AUTOMATIC SWITCH	16A S0	3RV1321-4AC10	SIEMENS	121188	20. 4
QF52	1	ADAPTER	121X45MM S00 S0	8US1051-5DJ07	SIEMENS	120834	20. 4
QF53	1	TRIPOLAR AUTOMATIC SWITCH	16A S0	3RV1321-4AC10	SIEMENS	121188	20. 5
QF53	1	ADAPTER	121X45MM S00 S0	8US1051-5DJ07	SIEMENS	120834	20. 5
QF55	1	TRIPOLAR AUTOMATIC SWITCH	16A S0	3RV1321-4AC10	SIEMENS	121188	20. 7
QF55	1	ADAPTER	121X45MM S00 S0	8US1051-5DJ07	SIEMENS	120834	20. 7
QF61	1	TRIPOLAR AUTOMATIC SWITCH	16A S0	3RV1321-4AC10	SIEMENS	121188	20. 8
QF61	1	ADAPTER	121X45MM S00 S0	8US1051-5DJ07	SIEMENS	120834	20. 8
QF71	1	TRIPOLAR AUTOMATIC SWITCH	32A S2	3RV1331-4EC10	SIEMENS	121183	41. 1
QF91	1	TRIPOLAR AUTOMATIC SWITCH	50A S2	3RV1331-4HC10	SIEMENS	121184	20. 1
QF91	1	ADAPTER	139X54MM S2	W 32002	WOHNER	120835	20. 1
QS0	1	MAIN CIRCUIT BREAKER	100A- 37KW	3LD2704-0TK51+3LD9280-5B	SIEMENS	121115	10. 1
RR81	1	BRAKING RESISTANCE	82+82 OHM 2600W	SRFT2600	SIR	6146	41. 5
SA3	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	81. 3
SA3	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	81. 3
SA3	1	KEY SELECTOR		800EM-KM2R1	ALLEN-BRADLEY	130392	81. 3
SA18	1	KEY SELECTOR		800EM-KM2R1	ALLEN-BRADLEY	130392	44. 1
SA18	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	44. 1
SA18	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	4

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Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST	CMS3020SEL	
Designer	ADR				GOTTO MONOTAVOLA	Pg.
Plot	08.11.02					803



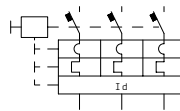
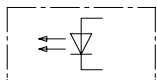

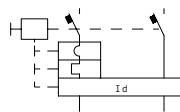
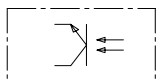
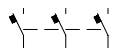
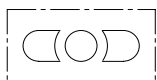

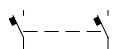


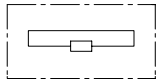




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BASE LIST									
IEC1033									
SIGN.	Q. TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN		
SB1	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	82.4		
SB1	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	82.4		
SB6	1	EMERGENCY PUSH-BUTTON		800EM-MT4	ALLEN-BRADLEY	130370	82.1		
SB6	1	CONTACTS BLOCK	1NC	800E-2X01	ALLEN-BRADLEY	130352	82.1		
SB6	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	82.1		
SB6	1	EMERGENCY YELLOW PLATE	¥60MM	800E-15Y	ALLEN-BRADLEY	130355	82.1		
SB7	1	EMERGENCY PUSH-BUTTON		800EM-MT4	ALLEN-BRADLEY	130370	82.1		
SB7	1	CONTACTS BLOCK	1NC	800E-2X01	ALLEN-BRADLEY	130352	82.1		
SB7	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	82.1		
SB7	1	EMERGENCY YELLOW PLATE	¥60MM	800E-15Y	ALLEN-BRADLEY	130355	82.1		
SB8	1	EMERGENCY PUSH-BUTTON		800EM-MT4	ALLEN-BRADLEY	130370	82.1		
SB8	1	CONTACTS BLOCK	1NC	800E-2X01	ALLEN-BRADLEY	130352	82.1		
SB8	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	82.1		
SB8	1	EMERGENCY YELLOW PLATE	¥60MM	800E-15Y	ALLEN-BRADLEY	130355	82.1		
SB8	1	1 PLACE PUSH-BUTTON PANEL		GW27101	GEWISS	131025	82.1		
SB11	1	GREEN PUSH-BUTTON		800EM-F3	ALLEN-BRADLEY	130367	173.7		
SB11	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	173.7		
SB11	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	173.7		
SB12	1	RED PUSH-BUTTON		800EM-E4	ALLEN-BRADLEY	130362	173.8		
SB12	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	173.8		
SB12	1	CONTACTS BLOCK	1NC	800E-2X01	ALLEN-BRADLEY	130352	173.8		
SB16	1	RED PUSH-BUTTON		800EM-E4	ALLEN-BRADLEY	130362	123.7		
SB16	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	123.7		
SB16	1	CONTACTS BLOCK	1NC	800E-2X01	ALLEN-BRADLEY	130352	123.7		
SB17	1	BLAC PUSH-BUTTON		800 EM-F2	ALLEN-BRADLEY	130366	123.8		
SB17	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	123.8		
SB17	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	123.8		
SB18	1	BLAC PUSH-BUTTON		800 EM-F2	ALLEN-BRADLEY	130366	172.5		
SB18	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	172.5		
SB18	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	172.5		
SB19	1	BLAC PUSH-BUTTON		800 EM-F2	ALLEN-BRADLEY	130366	172.6		
SB19	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	172.6		
SB19	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	172.6		
SB20	1	BLAC PUSH-BUTTON		800 EM-F2	ALLEN-BRADLEY	130366	175.5		
SB20	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	175.5		
SB20	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	175.5		
SB21	1	BLAC PUSH-BUTTON		800 EM-F2	ALLEN-BRADLEY	130366	175.6		
SB21	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	175.6		
SB21	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	175.6		
SH2	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	81.3		
SH2	1	LAMP HOLDER		800E-2DL0	ALLEN-BRADLEY	130353	81.3		
SH2	1	BLUE ILLUMINATED PUSH-BUTTON		800EM-LF6	ALLEN-BRADLEY	130373	81.3		
SH4	1	BLUE ILLUMINATED PUSH-BUTTON		800EM-LF6	ALLEN-BRADLEY	130373	84.7		
SH4	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	84.7		
SH4	1	LAMP HOLDER		800E-2DL0	ALLEN-BRADLEY	130353	84.7		
SH15	1	GREEN BACKLIGHTED PUSH-BUTTON		800EM-LF3	ALLEN-BRADLEY	130376	123.6		
SH15	1	LAMP HOLDER		800E-2DL0	ALLEN-BRADLEY	130353	123.6		
SH15	1	CONTACTS BLOCK	1N0	800E-2X10	ALLEN-BRADLEY	130351	123.6		
SH31	1	DUAL-CONTROL PUSH-BUTTON		800EP-LU2E213DL0X11	ALLEN-BRADLEY	130360	121.1		
SH32	1	DUAL-CONTROL PUSH-BUTTON		800EP-LU2E213DL0X11	ALLEN-BRADLEY	130360	121.3		

Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST	CMS3020SEL	
Designer	ADR				GIOTTO MONOTAVOLA	Pg.
Plot	08.11.02					804

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BASE LIST									
IEC1033									
SIGN.	Q. TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN		
SH71	1	DUAL-CONTROL PUSH-BUTTON		800EP-LU2E213DLOX11	ALLEN-BRADLEY	130360	121. 5		
ST10	1	THERMOSTAT		SK-3112	RITTAL	100610	124. 5		
ST10	1	THERMOSTAT SUPPORT	TRIAX-433-01			TRIAX-433-01	124. 5		
TV2	1	MONOPHASE TRANSFORMER	2,5KVA 400/230V	02M503	CTS	180586	51. 2		
TV11	1	THREE-PHASE AUTOTRANSFORMER IN IP BOX44	25KVA 440/400V			180808	10. 1		
UF61	1	SERVO-DRIVE	380/480VAC 2,7A	07. S4. D10-3470	KEB	151350	31. 2		
UF71	1	FREQUENCY CONVERTER	COMPACT SUPER 11KW 800HZ	15. F4. CEG-M440	KEB	151396	41. 0		
W201	1	REINFORCED OPTICAL FIBRE CABLE	15 M	93313859K	OSAI	191398	21. 9		
W202	1	OPTICAL FIBRE CABLE	0. 35 M	93314208K	OSAI	191390	21. 9		
W203	1	OPTICAL FIBRE CABLE	0. 35 M	93314208K	OSAI	191390	23. 9		
W204	1	OPTICAL FIBRE CABLE	0. 35 M	93314208K	OSAI	191390	25. 9		
W205	1	REINFORCED OPTICAL FIBRE CABLE	15 M	93313859K	OSAI	191398	27. 9		
W248	1	CABLE	RJ45 15 MT		ELETTROCABLAGGI	X100322	321. 7		
WB0	1	COVER		W 01413	WOHNER	181267	10. 3		
WB0	1	BAR HOLDER SUPPORT		W 01774	WOHNER	110841	10. 3		
WB1	1	COVER		W 01536	WOHNER	181268	20. 2		
WB1	1	BAR HOLDER SUPPORT		W 01774	WOHNER	110841	20. 2		
XC211	1	CUP CONNECTOR	9 P. F.	SUB-D 9	COMSEL	190729	302. 1		
XC211	1	METALIZED PLASTIC CAP	9 P.	FKC16A	ELCOM	191300	302. 1		
XC230	1	CUP CONNECTOR	9 P. F.	SUB-D 9	COMSEL	190729	321. 1		
XC230	1	METALIZED PLASTIC CAP	9 P.	FKC16A	ELCOM	191300	321. 1		
XC232	1	CUP CONNECTOR	9 P. F.	SUB-D 9	COMSEL	190729	321. 4		
XC232	1	METALIZED PLASTIC CAP	9 P.	FKC16A	ELCOM	191300	321. 4		
XC236	1	CUP CONNECTOR	9 P. F.	SUB-D 9	COMSEL	190729	322. 1		
XC236	1	METALIZED PLASTIC CAP	9 P.	FKC16A	ELCOM	191300	322. 1		
XC238	1	CUP CONNECTOR	9 P. M.	SUB-D 9	COMSEL	190728	322. 1		
XC238	1	METALIZED PLASTIC CAP	9 P.	DCM9UN4	BELCO	191314	322. 1		
XC240	1	CUP CONNECTOR	9 P. M.	SUB-D 9	COMSEL	190728	322. 6		
XC240	1	METALIZED PLASTIC CAP	9 P.	DCM9UN4	BELCO	191314	322. 6		
XC314	1	TRIPOLAR OUTLET	32A 3P. +T.	471-476	PALAZZOLI	191712	11. 2		
XC314	1	TRIPOLAR PLUG	32A 3P. +T.	477-415	PALAZZOLI	191720	11. 2		
XC324	1	TRIPOLAR OUTLET	32A 3P. +T.	471-476	PALAZZOLI	191712	11. 4		
XC324	1	TRIPOLAR PLUG	32A 3P. +T.	477-415	PALAZZOLI	191720	11. 4		
XC515	1	CUP CONNECTOR	15 P. M.	SUB-D 15	COMSEL	190705	22. 5		
XC515	1	METALIZED PLASTIC CAP	15 P.	FKC26A	ELCOM	191301	22. 5		
XC525	1	CUP CONNECTOR	15 P. M.	SUB-D 15	COMSEL	190705	24. 5		
XC525	1	METALIZED PLASTIC CAP	15 P.	FKC26A	ELCOM	191301	24. 5		
XC535	1	CUP CONNECTOR	15 P. M.	SUB-D 15	COMSEL	190705	26. 6		
XC535	1	METALIZED PLASTIC CAP	15 P.	FKC26A	ELCOM	191301	26. 6		
XC555	1	CUP CONNECTOR	15 P. M.	SUB-D 15	COMSEL	190705	28. 5		
XC555	1	METALIZED PLASTIC CAP	15 P.	FKC26A	ELCOM	191301	28. 5		
XC615	1	HIGH DENSITY CONNECTOR*	15 P. M.	5/5890	COMSEL	190916	32. 5		
XC615	1	METALIZED PLASTIC CAP	9 P.	FKC16A	ELCOM	191300	32. 5		
XC5100	1	CUP CONNECTOR	25 P. M.	SUB-D 25	COMSEL	190710	21. 3		
XC5100	1	METALIZED PLASTIC CAP	25 P.	FKC36A	ELCOM	191302	21. 3		
XC5200	1	CUP CONNECTOR	25 P. M.	SUB-D 25	COMSEL	190710	23. 3		
XC5200	1	METALIZED PLASTIC CAP	25 P.	FKC36A	ELCOM	191302	23. 3		
XC5300	1	CUP CONNECTOR	25 P. M.	SUB-D 25	COMSEL	190710	25. 3		
XC5300	1	METALIZED PLASTIC CAP	25 P.	FKC36A	ELCOM	191302	25. 3		
XC5500	1	CUP CONNECTOR	25 P. M.	SUB-D 25	COMSEL	190710	27. 3		
804									
806									
Changes	08. 11. 02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST		CMS3020SEL			
Designer	ADR					GIOTTO MONOTAVOLA			Pg. 805
Plot	08. 11. 02								

0	1	2	3	4	5	6	7	8	9
BASE LIST									
IEC1033									
SIGN.	Q. TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN		
XC5500	1	METALIZED PLASTIC CAP	25 P.	FKC36A	ELCOM	191302	27.3		
Z1	1	THREE-PHASE MAINS FILTER	480V 30A	FN3258-30/47	SCHAFFNER	141276	20.1		
Z61	1	MAINS FILTER	8A 16KHZ	10. U4. 00F-BM01	KEB	151361	31.1		
ZV2	2	BLACK SCREEN	LZ40N		PAMOCO	152035	403.1		
ZV2	2	FILTER	LZ60		PAMOCO	152038	403.1		


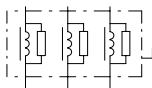

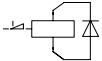
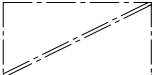
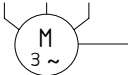
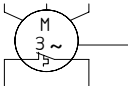


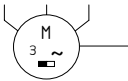

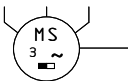

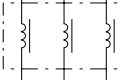
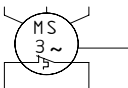
Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST	CMS3020SEL		
Designer	SMN				GIOTTO MONOTAVOLA		Pg. 806
Plot	08.11.02						

0	1	2	3	4	5	6	7	8	9
SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	
	LASER PROJECTOR	A							
	LASER RECEIVER	A					MAGNETO-THERMAL DIFFERENTIAL AUTOMATIC SWITCH	F	
	PHOTOELECTRIC PROJECTOR	A		TRANSDUCER	B		MAGNETO-THERMAL DIFFERENTIAL AUTOMATIC SWITCH	F	
	PHOTOELECTRIC RECEIVER	A					MAGNETO-THERMAL THREE-POLE AUTOMATIC SWITCH	F	
	PANEL MOUSE	A		CONDENSER	C		MAGNETO-THERMAL TWO-PHASE AUTOMATIC SWITCH	F	
	MOUSE	A					MAGNETO-THERMAL UNIPOLAR AUTOMATIC SWITCH	F	
	FLOPPY DISK DRIVE	A		CONDITIONER	E		SURGE ARRESTER	F	
				VENTILATOR	E		SURGE ARRESTER WITH EXCHANGE CONTACT	F	

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Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3020SEL	
Designer	BRN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 851	

0	1	2	3	4	5	6	7	8	9
SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	
				RELAY COIL WITH RC FILTER	K		THREE-PHASE INDUCTANCE WITH PARALLEL RESISTORS	L	
				RELAY COIL WITH MECHANICAL BLOCK	K				
				RELAY COIL WITH MECHANICAL BLOCK WITH DIODE	K				
	POWER SUPPLY	G					ONE-SPEED THREE-PHASE A. C. MOTOR	M	
							ONE-SPEED A. C. THREE-PHASE MOTOR WITH THERMO-DETECTOR	M	
	LIGHTED WARNING	H		FERRITE CORE	L		A. C. PERMANENT-MAGNET THREE-PHASE MOTOR	M	
				FERRITE CORE WITH TURN	L		PERMANENT-MAGNET A. C. THREE-PHASE SYNCHRONOUS MOTOR	M	
	RELAY COIL	K		THREE-PHASE INDUCTANCE	L		A. C. THREE-PHASE SYNCHRONOUS MOTOR WITH THERMO-DETECTOR	M	

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Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3020SEL	
Designer	BRN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 852	

0	1	2	3	4	5	6	7	8	9
SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	
	STAR DELTA THREE-PHASE A.C. MOTOR	M		RESISTOR	R				
	D.C. MONOPHASE MOTOR	M		VARISTOR	R				
							0-EXTRACTABLE NORMALLY-OPEN STABLE KEY SELECTOR	S	
				NORMALLY-OPEN CONTACT	S		LIVE-OPENING 0-EXTRACTABLE NORMALLY-CLOSED STABLE KEY SELECTOR	S	
	MAGNETO-THERMAL THREE-POLE AUTOMATIC SWITCH	Q		NORMALLY-CLOSED CONTACT	S		0- AND 1-EXTRACTABLE NORMALLY-OPEN STABLE KEY SELECTOR	S	
	MAGNETIC THREE-POLE AUTOMATIC SWITCH	Q		DE-ENERGIZING-DELAYED NORMALLY-OPEN CONTACT	S		LIVE-OPENING 0- AND 1-EXTRACTABLE NORMALLY-CLOSED STABLE KEY SELECTOR	S	
	THREE-POLE SWITCH	Q		THERMAL CUT-OUT WITH NORMALLY-CLOSED MANUAL RELEASE	S		0- 1- AND 2-EXTRACTABLE 3-POSITION NORMALLY-OPEN STABLE KEY SELECTOR	S	
				THERMAL BUTTON	S		STABLE NORMALLY-OPEN HAND-GRIP SELECTOR	S	

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Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3020SEL				
Designer	BRN				GIOTTO MONOTAVOLA				
Plot	08.11.02								
					Pg. 853				

0	1	2	3	4	5	6	7	8	9
SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	
	LIVE-OPENING NORMALLY-CLOSED STABLE HAND-GRIP SELECTOR	S		LIVE-OPENING NORMALLY-CLOSED ROPE-OPERATED EMERGENCY TENSION ROD	S				
	NORMALLY-OPEN UNSTABLE HAND-GRIP SELECTOR	S							
	LIVE-OPENING NORMALLY-CLOSED UNSTABLE HAND-GRIP SELECTOR	S		NORMALLY-OPEN PRESSURE-SWITCH	S				
				NORMALLY-CLOSED PRESSURE-SWITCH	S		NORMALLY-OPEN SAFETY LIMIT SWITCH WITH KEY	S	
				NORMALLY-OPEN PRESSURE-SWITCH WITH INTERLOCK	S		NORMALLY-CLOSED SAFETY LIMIT SWITCH WITH LIVE-OPENING KEY	S	
				NORMALLY-CLOSED PRESSURE-SWITCH WITH INTERLOCK	S		NORMALLY-OPEN MULTIFUNCTION CAM LIMIT SWITCH	S	
				NORMALLY-OPEN PEDAL PUSH-BUTTON	S		NORMALLY-CLOSED MULTIFUNCTION CAM LIMIT SWITCH	S	
	LIVE-OPENING NORMALLY-CLOSED MUSHROOM EMERGENCY PUSH-BUTTON	S		NORMALLY-CLOSED PEDAL PUSH-BUTTON	S		NORMALLY-OPEN ELECTRO-MECHANICAL LIMIT SWITCH	S	

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
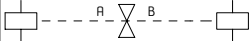


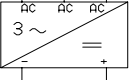






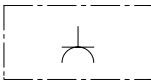


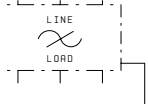


Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3020SEL	
Designer	BRN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 854	

0	1	2	3	4	5	6	7	8	9
SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	
	NORMALLY-CLOSED ELECTRO-MECHANICAL LIMIT SWITCH	S		NORMALLY-CLOSED MAGNETIC PROXIMITY SENSOR	S		NORMALLY-OPEN FLOW GAUGE	S	
	LIVE-OPENING NORMALLY-CLOSED ELECTRO-MECHANICAL LIMIT SWITCH	S					NORMALLY-CLOSED FLOW GAUGE	S	
				NORMALLY-OPEN THERMOSTAT	S				
				NORMALLY-CLOSED THERMOSTAT	S				
	OPTICAL PROXIMITY SENSOR	S		INDUCTIVE NORMALLY-OPEN MANOSTAT	S				
	INDUCTIVE PROXIMITY SENSOR	S		NORMALLY-OPEN MANOSTAT	S		STAR/STAR THREE-PHASE TRANSFORMER	T	
	NORMALLY-OPEN MAGNETIC PROXIMITY SENSOR	S		NORMALLY-CLOSED MANOSTAT	S		MONOPHASE TRANSFORMER	T	

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Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3020SEL	
Designer	BRN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg. 855	

0	1	2	3	4	5	6	7	8	9
SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	SYMBOL	DESCRIPTION	CATEGORY	
	STAR THREE-PHASE AUTOTRANSFORMER	T					BISTABLE SOLENOID VALVE	Y	
				TERMINAL	X		PROPORTIONAL SOLENOID VALVE	Y	
	THREE-PHASE RECTIFIER	V		FEMALE CONNECTOR	X		ELECTROMAGNETIC BRAKE	Y	
	DIODE	V		MALE CONNECTOR	X		ELECTRO-LOCK	Y	
	LED	V		OUTLET	X				
				RING-COLLECTOR CONNECTION	X				
	OPTICAL FIBRE CABLE	W					THREE-POLE LINE TRAP	Z	
	SPREAD BAR	W		MONOSTABLE SOLENOID VALVE	Y				

855

901

Changes	08.11.02	Notes	C. M. S. S. p. A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3020SEL	
Designer	BRN				GIOTTO MONOTAVOLA	
Plot	08.11.02				Pg.	856

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SOMM1999

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P. & P.

Studio Tecnico
di
PICCOLI PATRIZIO

PROGETTAZIONE IMPIANTI ELETTRICI INDUSTRIALI E CIVILI
AUTOMAZIONE INDUSTRIALE - SOFTWARE P.L.C. E P.C.

Via Roncat 9/Q 31018 GAIARINE - TV Tel. 0434 - 759232
Part.iva 00896120268 Cod. Fisc. PCCPRZ55R15815D

DESCRIZIONE/DESCRIPTION

QUADRO COMANDO CARICATORE PANTOGRAFO CMS
(853)

CLIENTE/CLIENT

STS AUTOMAZIONI

SUPPLY VOLTAGE
TENSIONE NOMINALE

Vn = 440 V

DRAW No.
DISEGNO N°

651

FREQUENCY
FREQUENZA

f = 60 Hz

FILE
FILE

STS050.DWG

CURRENT
CORRENTE NOMINALE

In = 32 A

WORK No.
COMMESSA

2173

POWER
POTENZA NOMINALE

Pn = 7 kW

SERIAL No.
MATRICOLA

6510802

SHORT CIRCUIT CURRENT
CORRENTE CORTO CIRCUITO

Icc = 6 kA

DATE
DATA

19/08/2002

AUXILIARY VOLTAGE
TENSIONE AUSILIARIO

Vaux = 24 V

UPDATING
AGGIORNAMENTO

BOARD
CARPENTERIA

CEB
2000x800x500mm

NOTE /NOTES

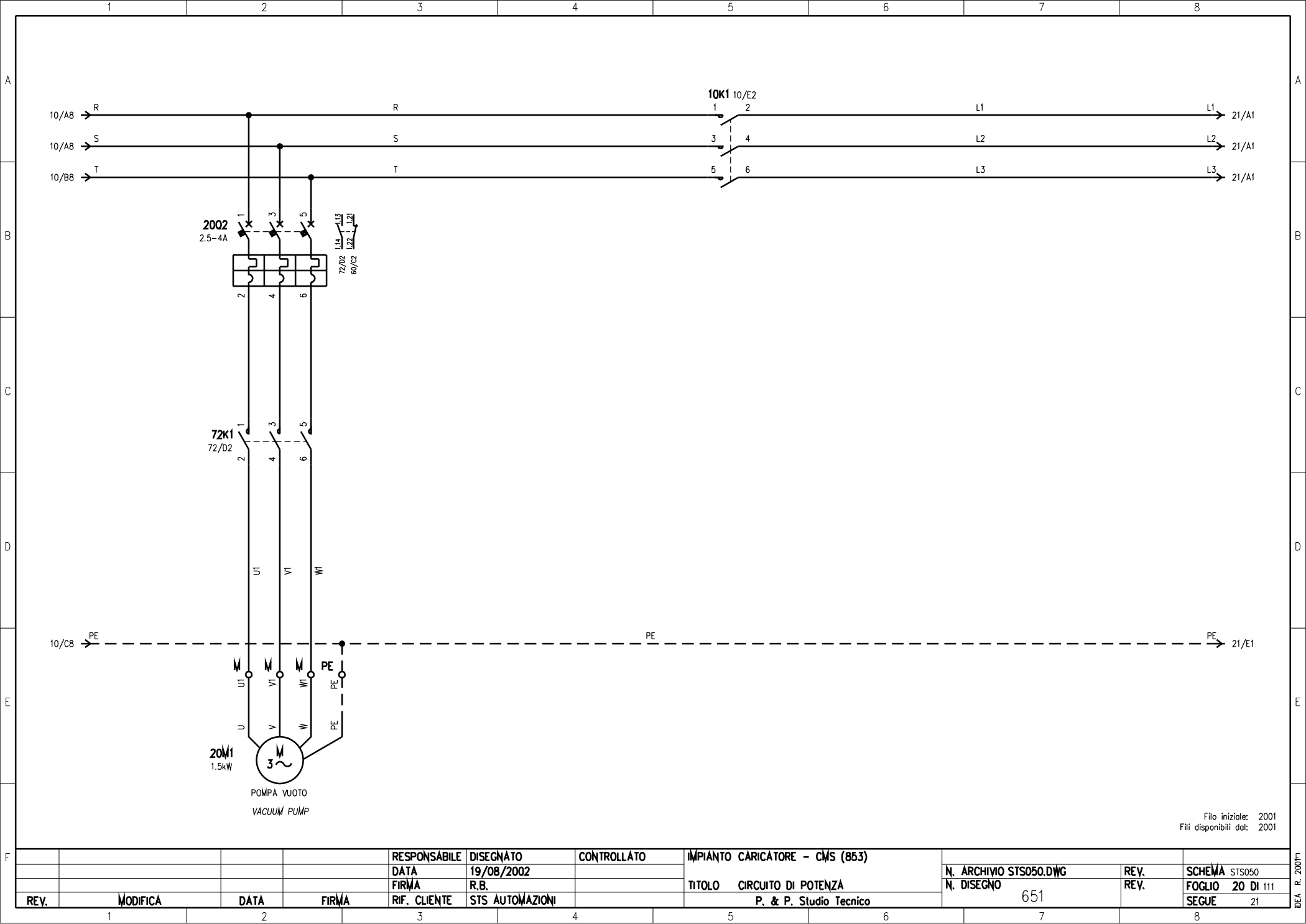
PROTECTION

GRADO DI PROTEZIONE IP55

INDICE

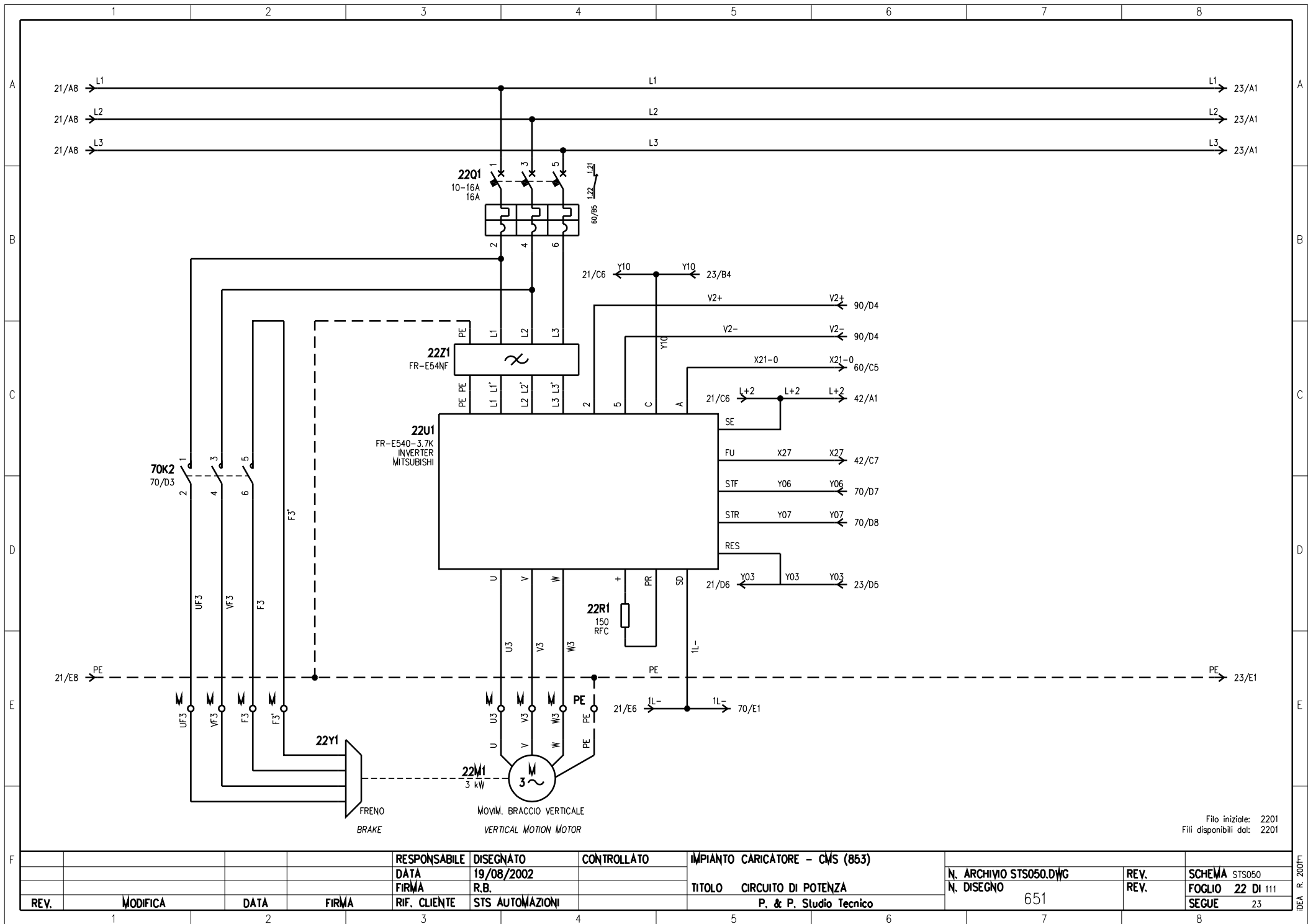
Foglio	Titolo
10	CIRCUITO DI POTENZA
20	CIRCUITO DI POTENZA
21	CIRCUITO DI POTENZA
22	CIRCUITO DI POTENZA
23	CIRCUITO DI POTENZA
29	CONFIGURAZIONE PLC
30	DISPOSITIVI DI SICUREZZA
40	INGRESSI PLC X0-X7
41	INGRESSI PLC X10-X17
42	INGRESSI PLC X20-X27
43	INGRESSI PLC X30-X37
60	SCHEDA DIODI INGRESSI
61	SCHEDA DIODI INGRESSI
70	PLC USCITE Y0-Y7
71	PLC USCITE Y10-Y17
72	PLC USCITE Y20-Y27
73	PLC USCITE Y30-Y37
90	PLC USCITE MODULO ANALOGICO
100	MORSETTIERA
101	MORSETTIERA
102	MORSETTIERA
110	LAYOUT
111	LAYOUT

REV.	DATA	OGGETTO MODIFICA	FIRMA



REV.	MODIFICA	DATA	FIRMA	RIF. CLIENTE	RESPONSABILE	DISEGNATO	CONTROLLATO	IMPIANTO CARICATORE - CMS (853)	N. ARCHIVIO STS050.DWG	REV.	SCHEMA
					DATA	19/08/2002		TITOLO CIRCUITO DI POTENZA	N. DISEGNO	REV.	FOGLIO
						STS AUTOMAZIONI		P. & P. Studio Tecnico	651		20 DI 111
											SEGUE
											21

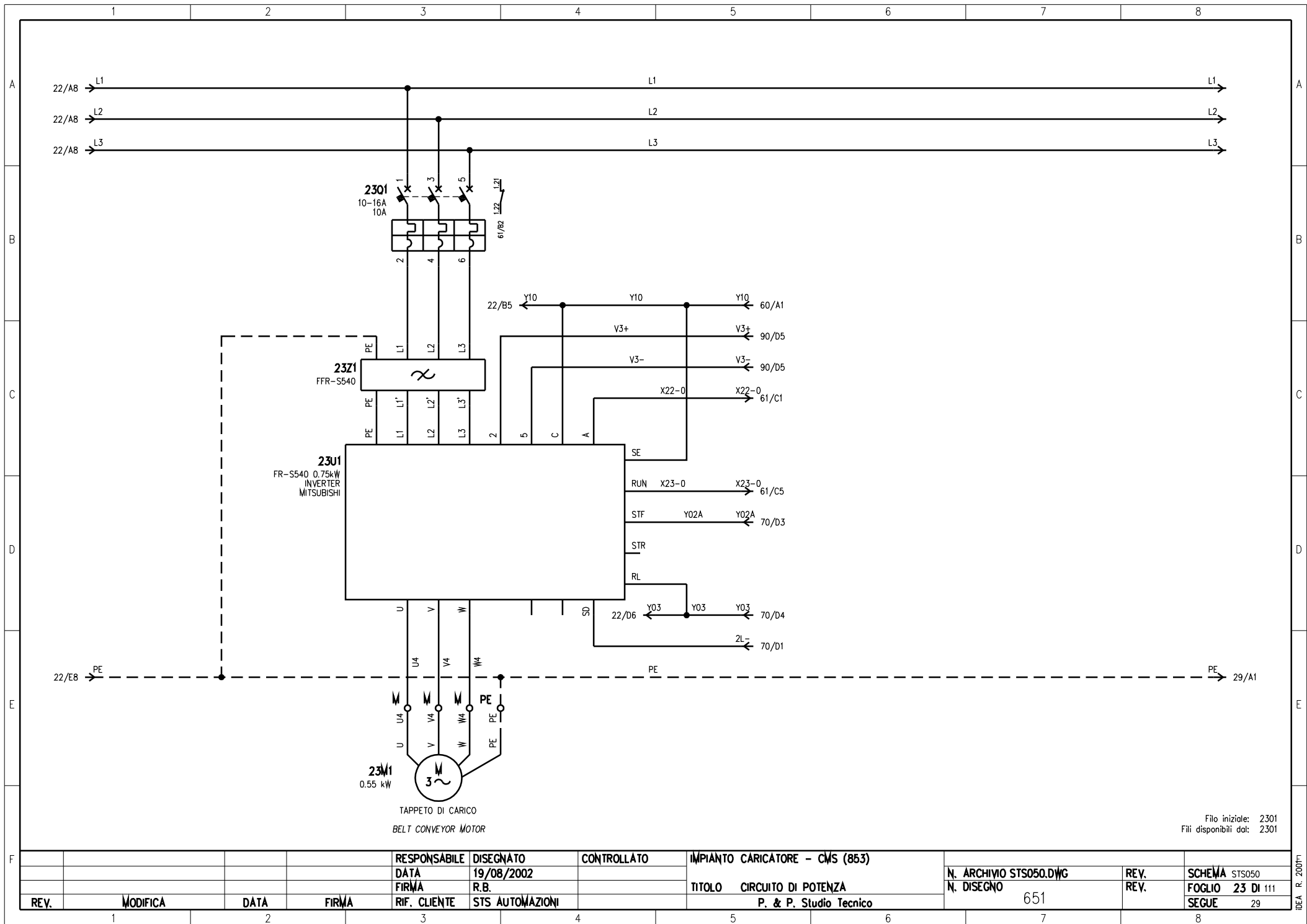
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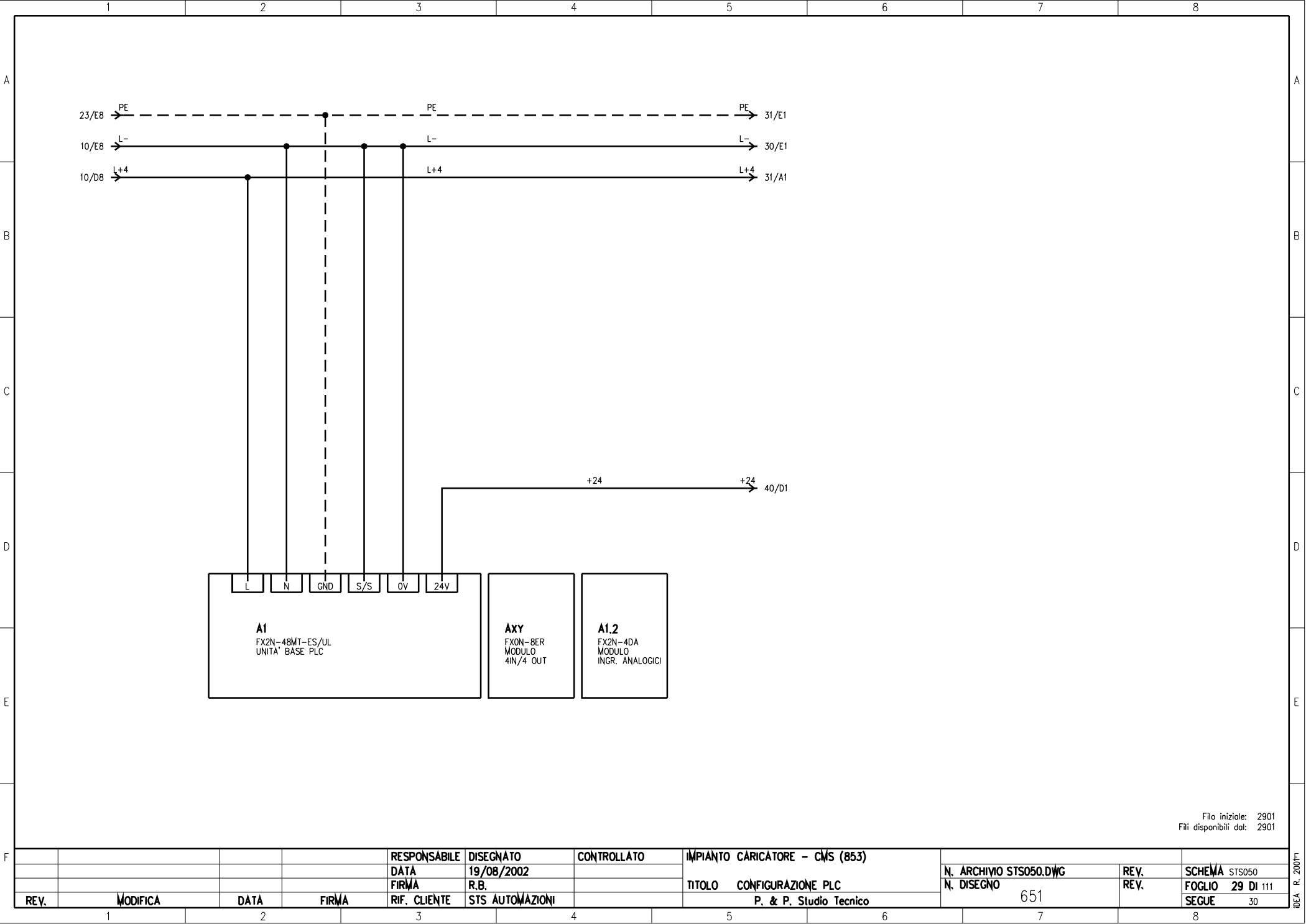
REV.	MODIFICA	DATA	FIRMA	RIF. CLIENTE	RESPONSABILE	DISEGNATO	CONTROLLATO	IMPIANTO CARICATORE - CMS (853)	N. ARCHIVIO STS050.DWG	REV.	SCHEMA
					DATA	19/08/2002		TITOLO CIRCUITO DI POTENZA	N. DISEGNO	REV.	FOGLIO
						R.B.		P. & P. Studio Tecnico	651		22 DI 111
						STS AUTOMAZIONI					SEGUE
											23

IDEA R. 2007



RESPONSABILE	DISEGNATO	CONTROLLATO	IMPIANTO CARICATORE - CMS (853)
DATA	19/08/2002		
FIRMA	R.B.		TITOLO CIRCUITO DI POTENZA
RIF. CLIENTE	STS AUTOMAZIONI		P. & P. Studio Tecnico

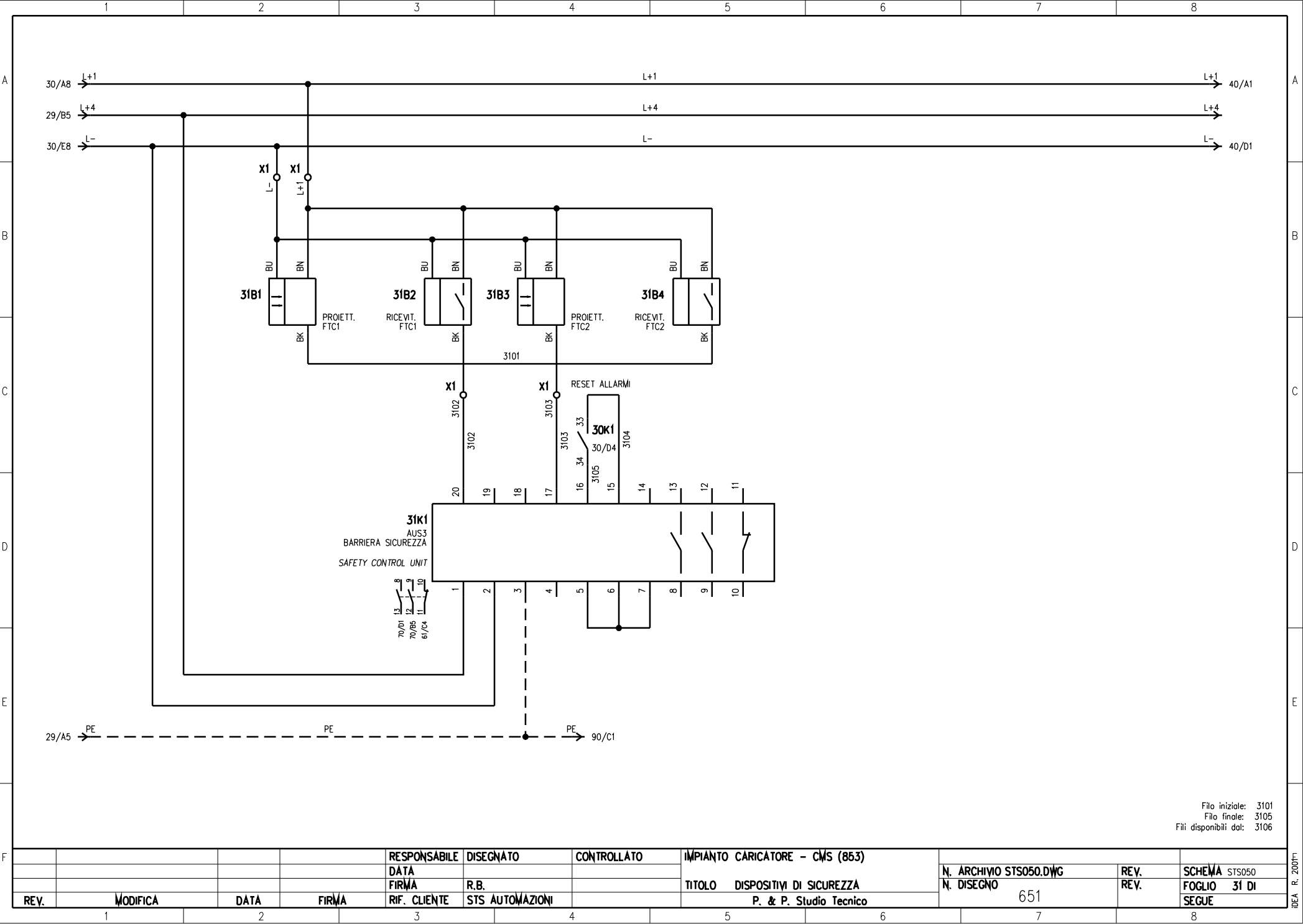
N. ARCHIVIO STS050.DWG	REV.	SCHEMA STS050
N. DISEGNO	REV.	FOGLIO 23 DI 111
651		SEGUE 29



Filo iniziale: 2901
Fili disponibili dal: 2901

				RESPONSABILE	DISEGNATO	CONTROLLATO	IMPIANTO CARICATORE - CMS (853)				
				DATA	19/08/2002				N. ARCHIVIO STS050.DWG	REV.	SCHEMA
				FIRMA	R.B.		TITOLO	CONFIGURAZIONE PLC	N. DISEGNO	REV.	FOGLIO
REV.	MODIFICA	DATA	FIRMA	RIF. CLIENTE	STS AUTOMAZIONI		P. & P. Studio Tecnico		651		29 DI 111
											SEGUE
											30

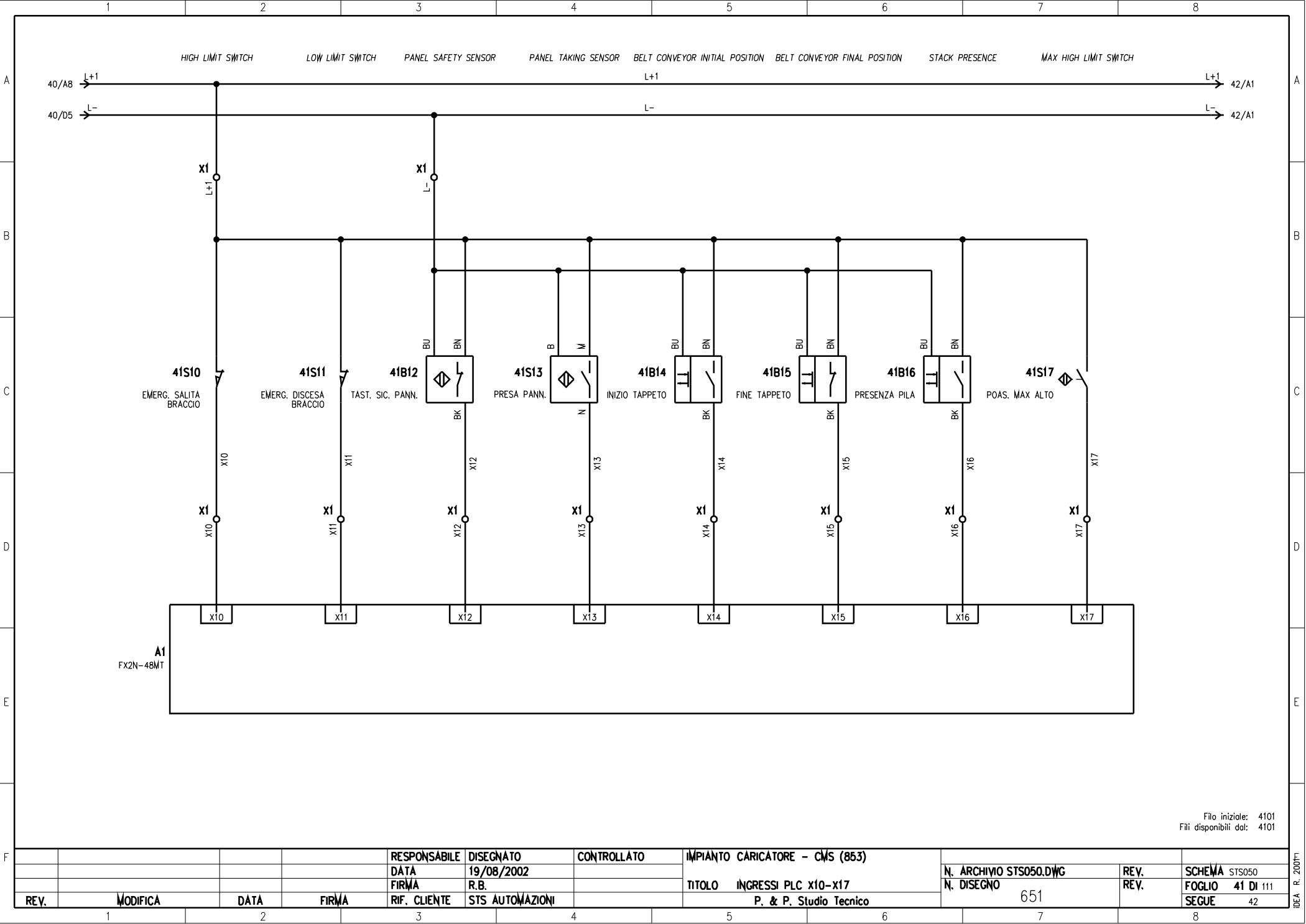
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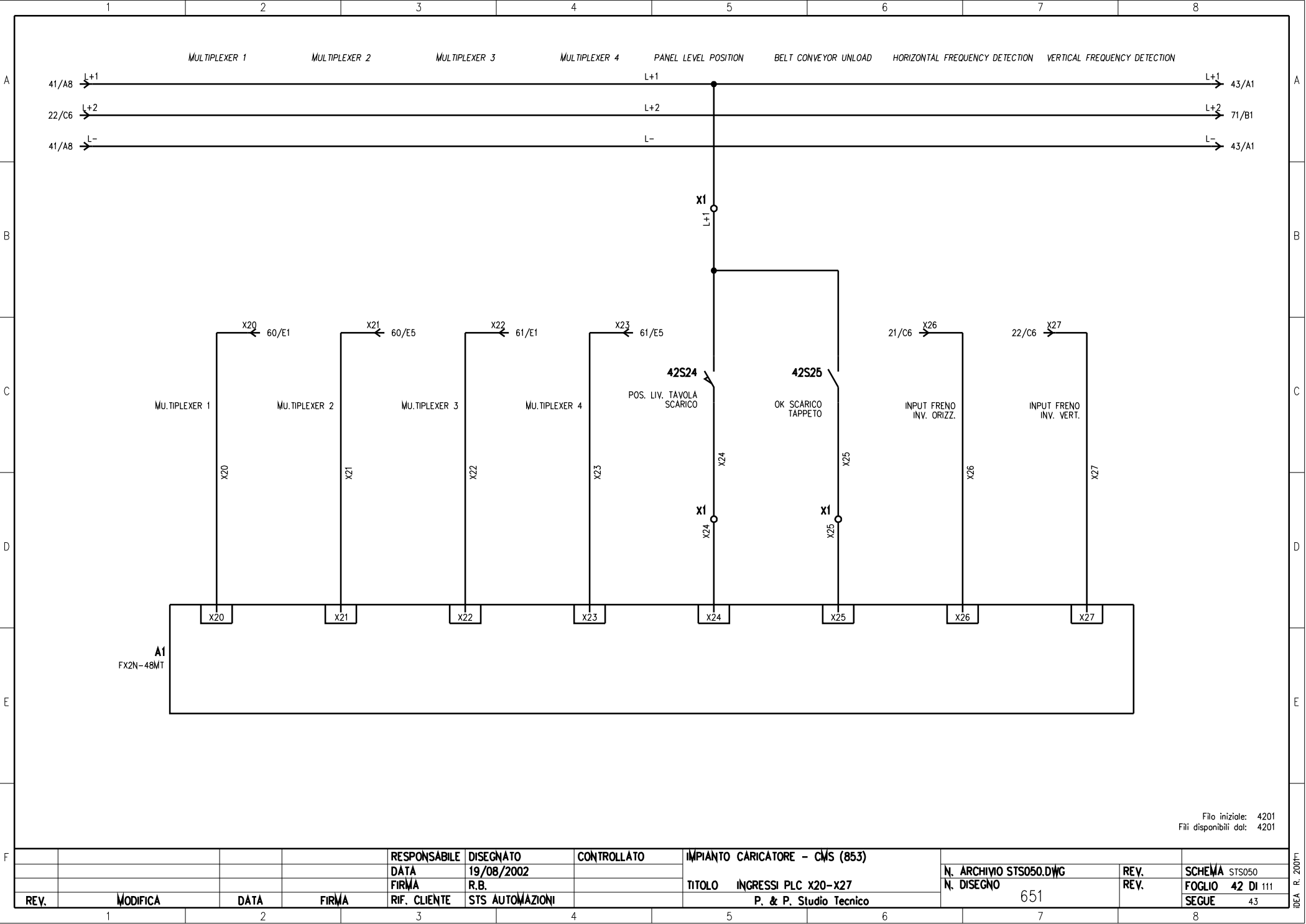


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Filo finale: 3105
Fili disponibili dal: 3106

REV.	MODIFICA	DATA	FIRMA	RIF. CLIENTE	RESPONSABILE	DISEGNATO	CONTROLLATO	IMPIANTO CARICATORE - CMS (853)	N. ARCHIVIO STS050.DWG	REV.	SCHEMA
								TITOLO	DISPOSITIVI DI SICUREZZA	REV.	FOGLIO
								P. & P. Studio Tecnico	651		31 DI
											SEGUE

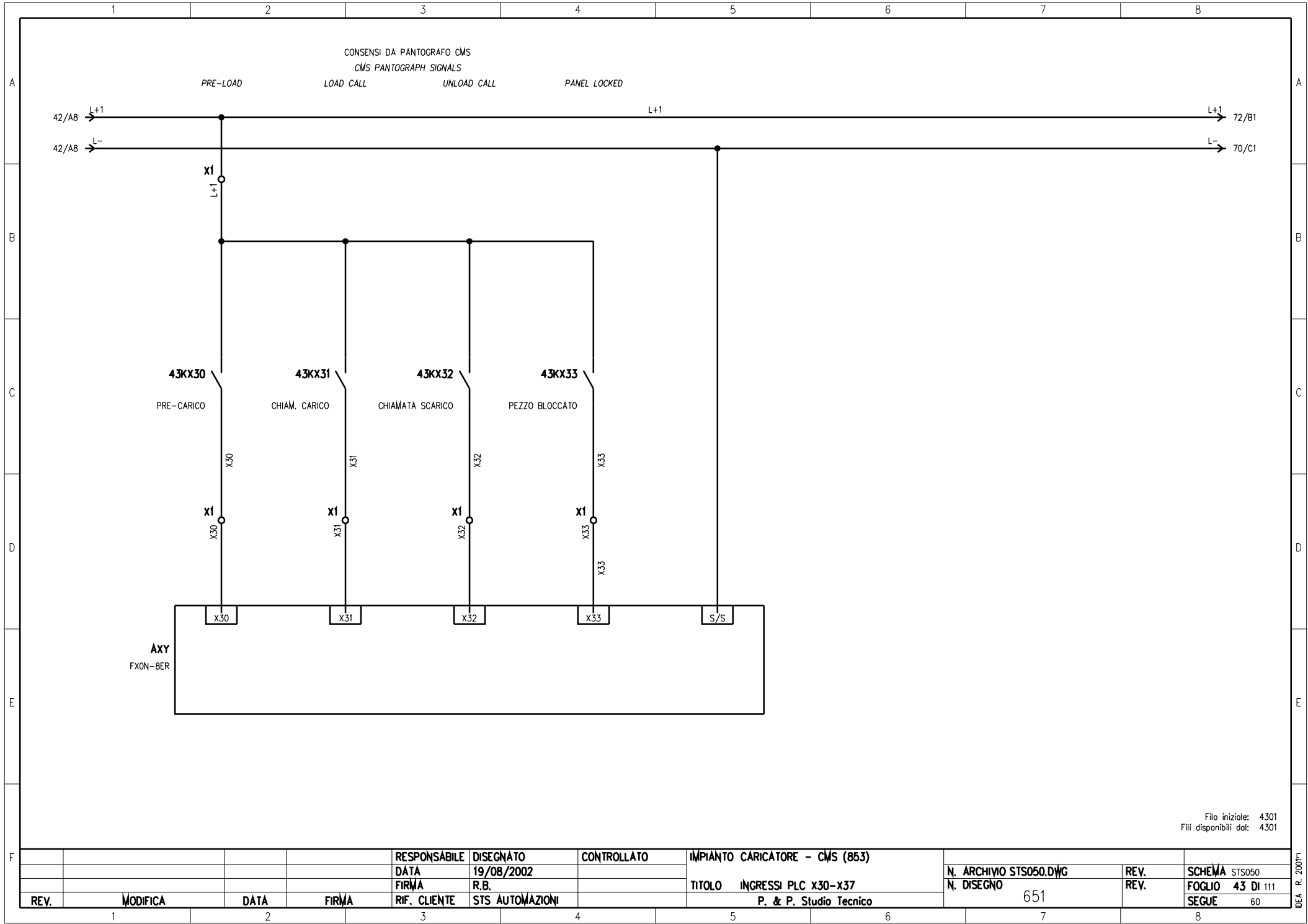
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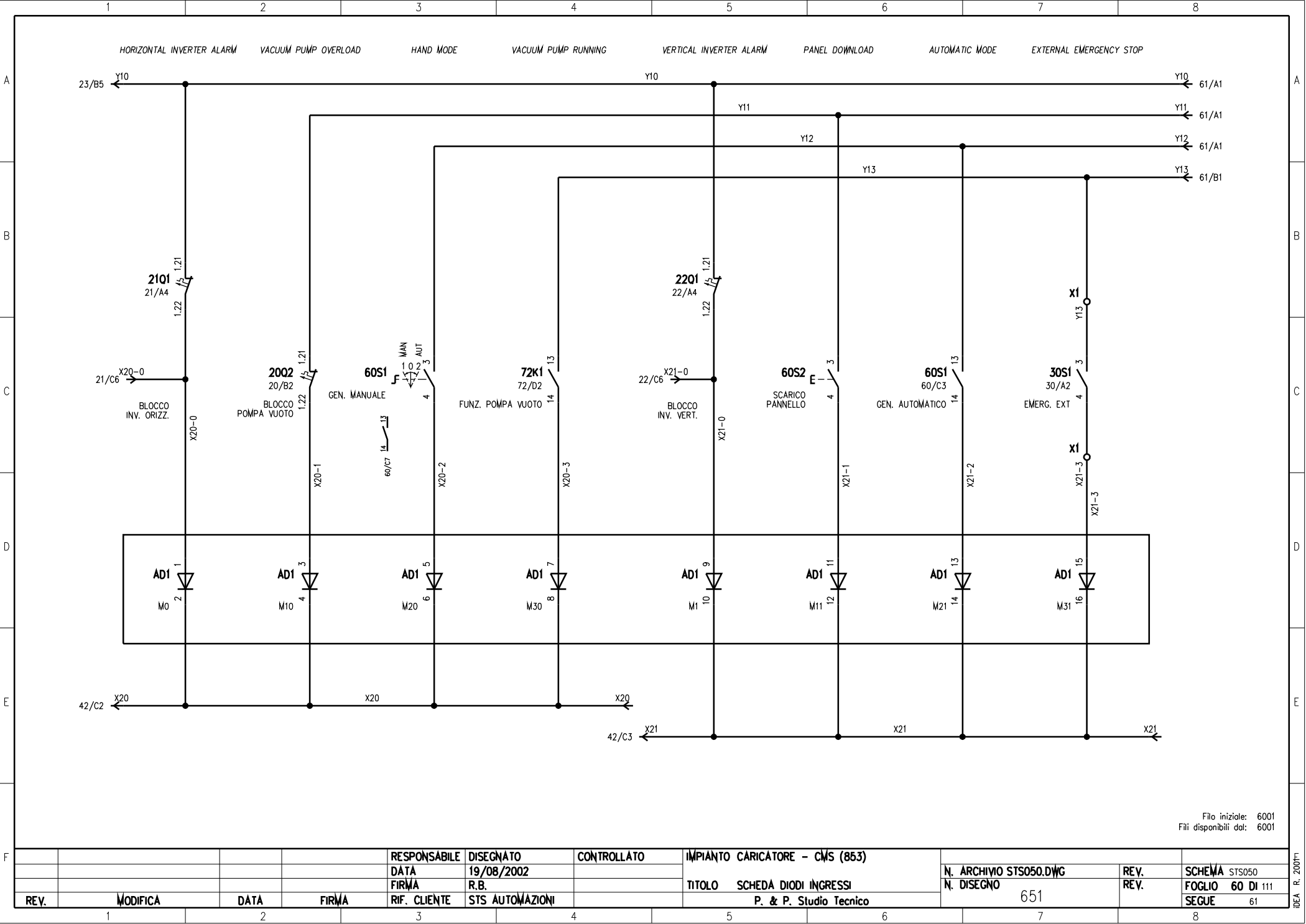




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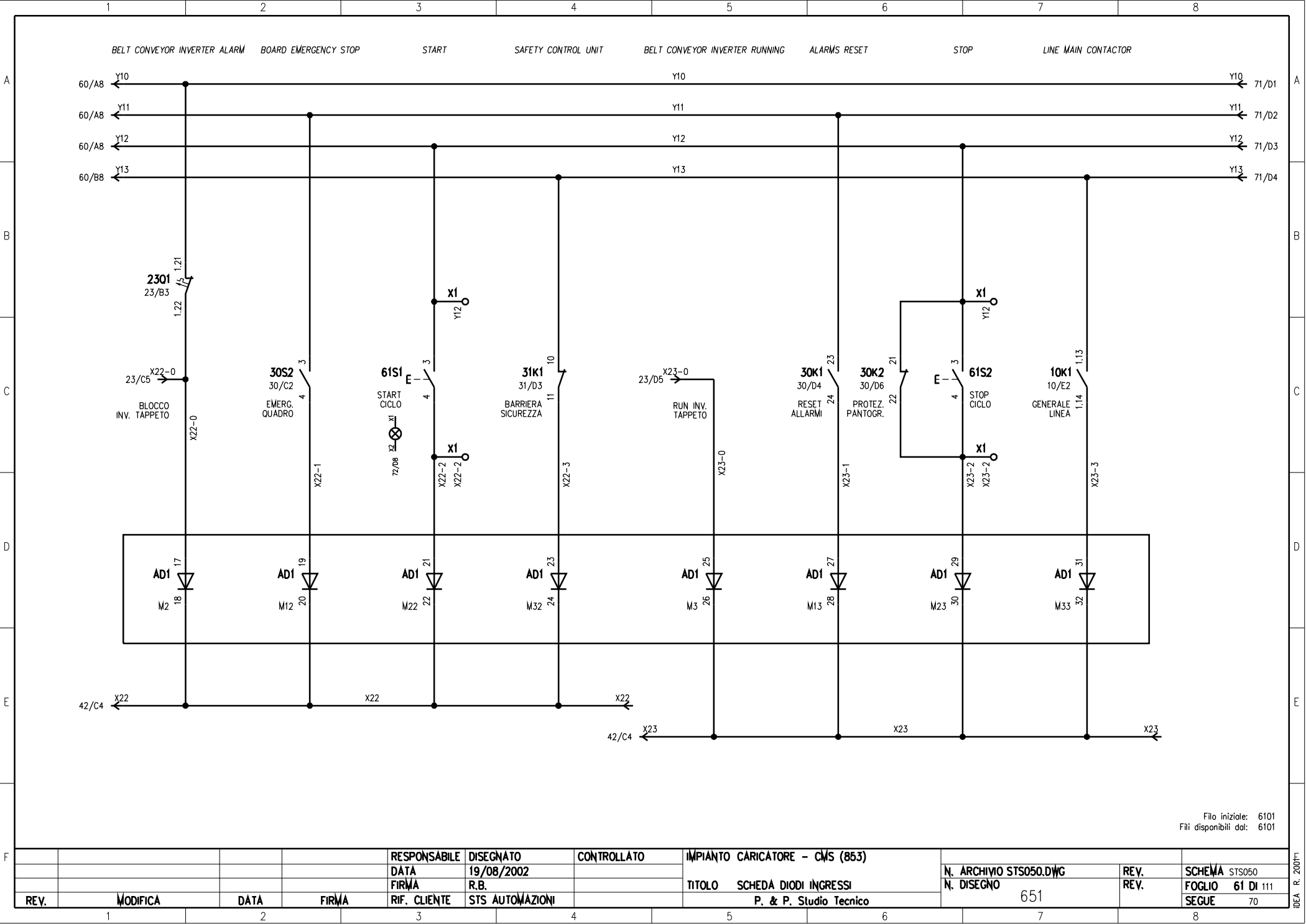
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				DATA	19/08/2002				N. ARCHIVIO STS050.DWG	REV.	SCHEMA STS050
				FIRMA	R.B.		TITOLO	INGRESSI PLC X20-X27	N. DISEGNO	REV.	FOGLIO 42 DI 111
REV.	MODIFICA	DATA	FIRMA	RIF. CLIENTE	STS AUTOMAZIONI		P. & P. Studio Tecnico		651		SEGUE 43

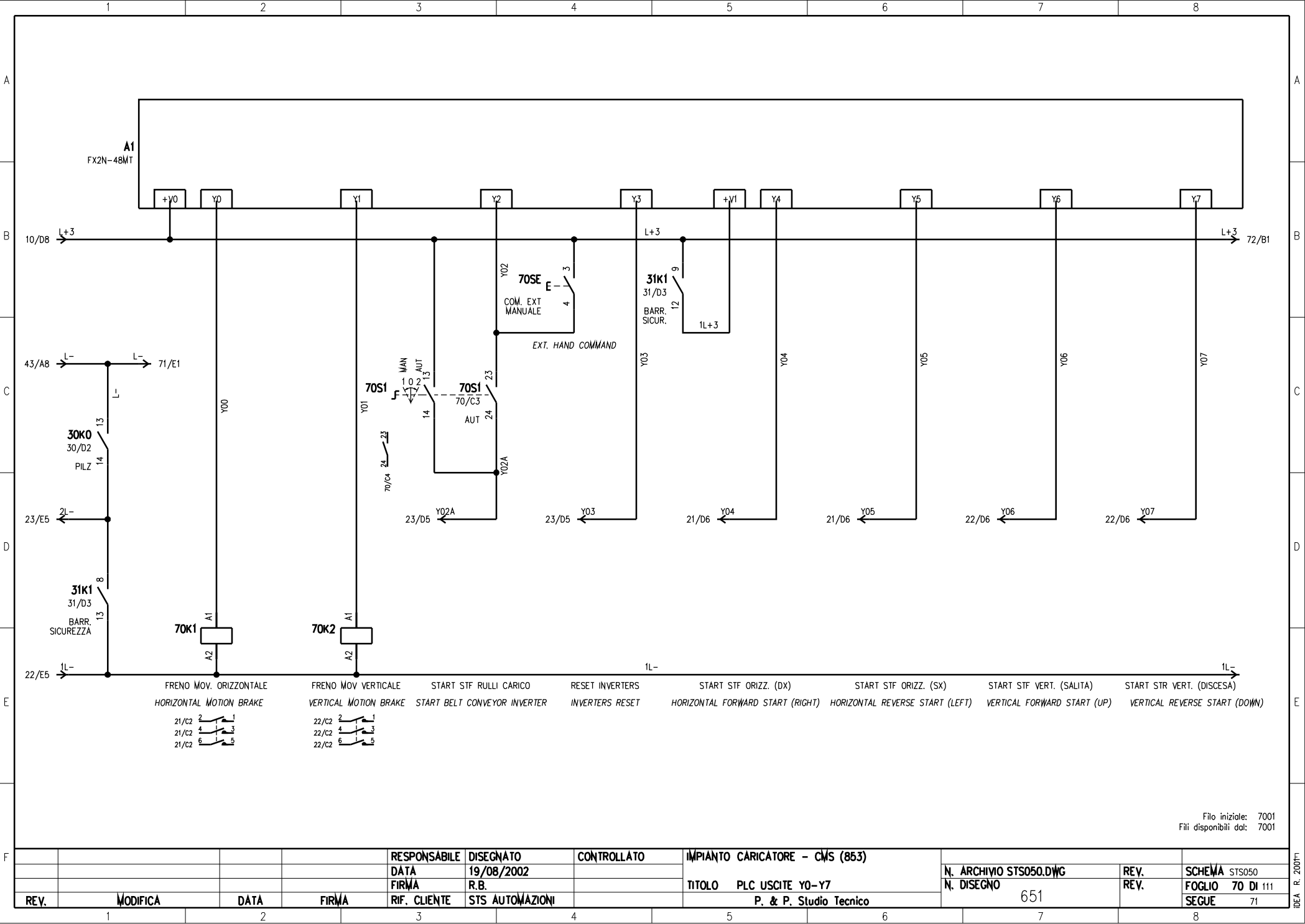




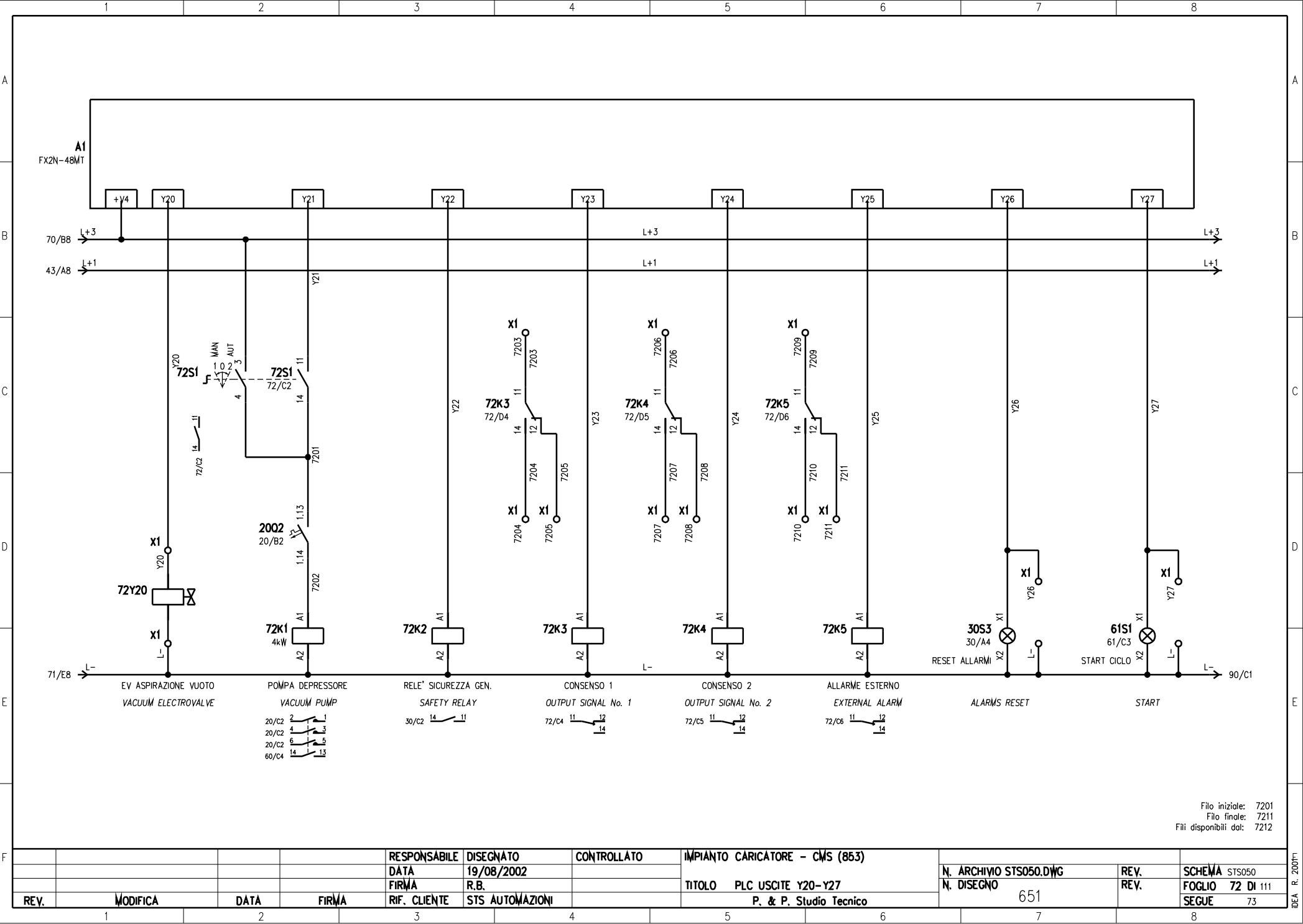
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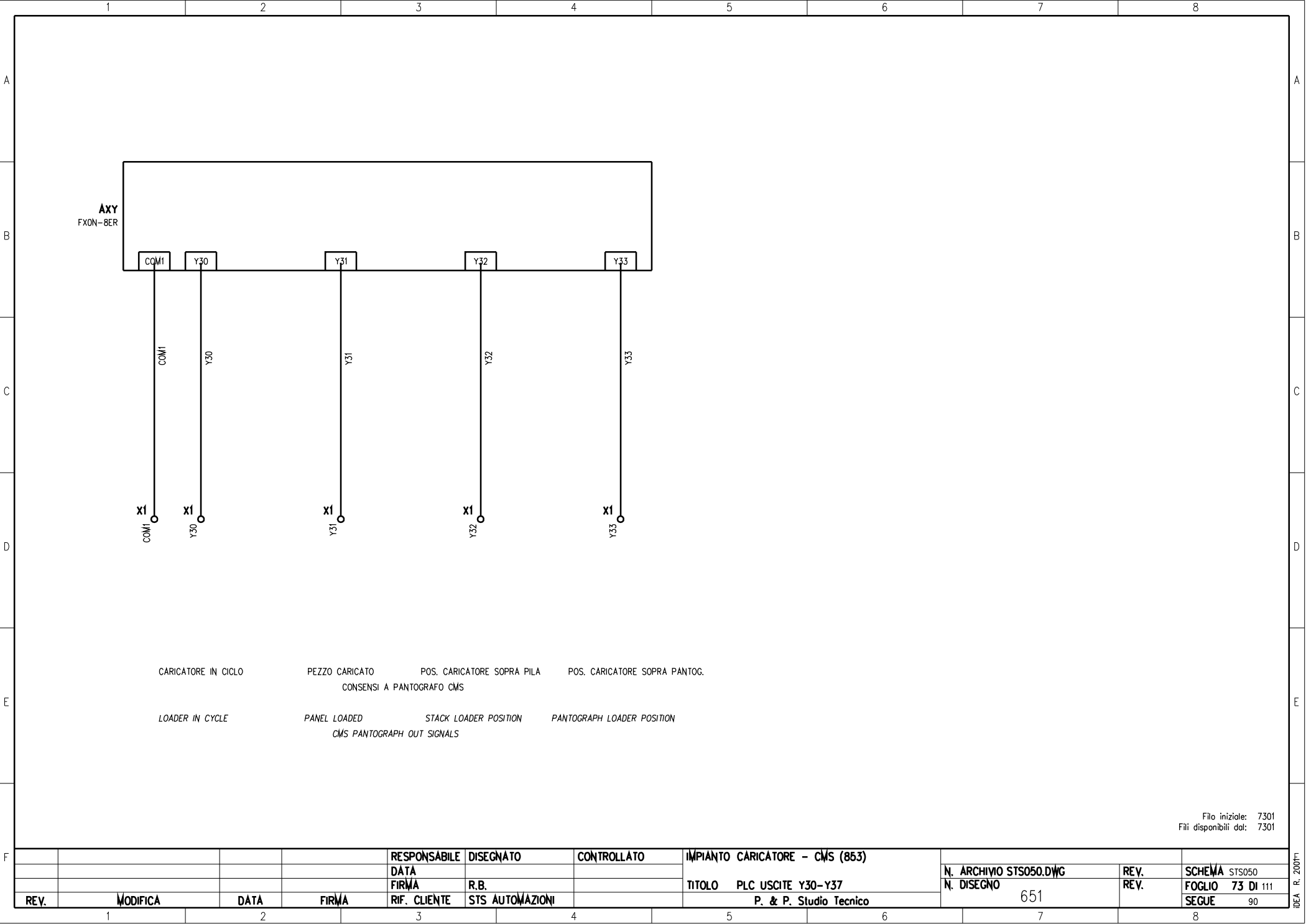
				RESPONSABILE	DISEGNATO	CONTROLLATO	IMPIANTO CARICATORE - CMS (853)				
				DATA	19/08/2002				N. ARCHIVIO STS050.DWG	REV.	SCHEMA STS050
				FIRMA	R.B.		TITOLO SCHEDA DIODI INGRESSI		N. DISEGNO	REV.	FOGLIO 60 DI 111
REV.	MODIFICA	DATA	FIRMA	RIF. CLIENTE	STS AUTOMAZIONI		P. & P. Studio Tecnico		651		SEGUE 61

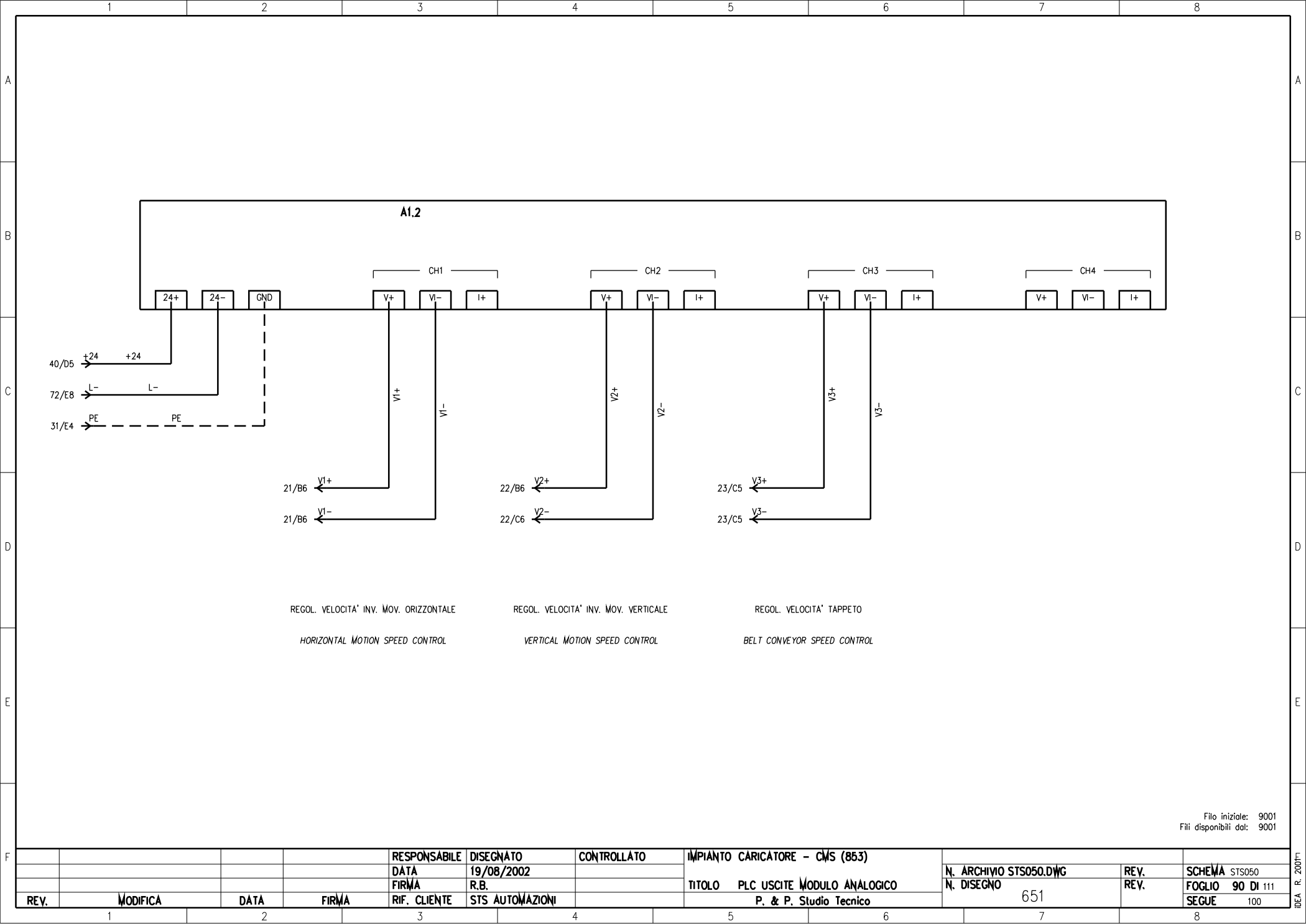












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